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ABSTRACT

The development of students in various art fields is the focus of this K-12 art curriculum guide. The philosophy of the art program and the roles of administrator, teacher, and parent are outlined. The underlying school community relationships, and the objective, goals, and purposes of art education are described. Phases of child development in general and for specific age groups from 4 to 18 years of age are given with the art characteristics of these age groups and their art program goals. Fundamental art concepts -color, light and shade, design, and composition -- as well as the basic media, are outlined as to objectives, materials, and suggested projects. The remainder of the guide follows a format of objectives, materials, working knowledge, concepts, and suggested projects in presenting several art techniques. Methods, motivations, and processes are not dictated but are left to the individual teachers. Techniques in the guide include the following: lettering, interior and mural design, paper and paper mache, batik, tie-dying, printing, silversmithing, enameling, stained glass, wood, leather, textiles, ceramics, and sand casting. (Author/KSM)

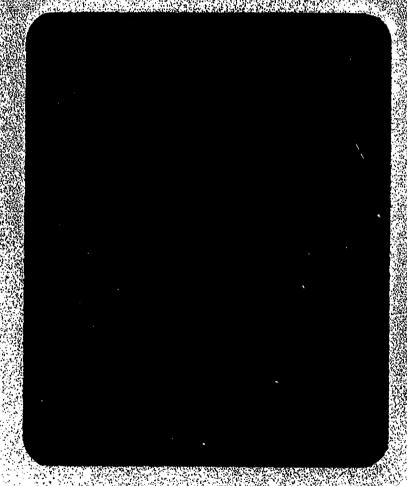
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Foreword

This guide is not a program of work for individual teachers or students but rather a guide to the development of a youth in the various art fields—a development that will help him to adjust to adult life. Methods, motivations, and processes are not dictated but are left to the individual teachers.

The art instructor as the leader must have a broad cultural education and a thorough training in the arts, for without a strong teacher no art curriculum can be a success. The teacher must possess imagination and originality, for resourcefulness is developed in the student by the teacher. It is the purpose of the teacher to develop the youth rather than to provide stock answers.

The philosophy that underlines the art program is based on the firm belief that art education today is an integral part of our democratic way of life. Art no longer exists solely within the cloistered hall of the museums. It has become far broader. It is an educational experience that no student should be denied for it is not for one person to predict what vistas lie ahead. It is safe to say for the present that art has become a recognized factor in everyday living. Therefore, the understanding of art and its function is a necessary part of a well rounded education. If yout a is handicapped by a lack of understanding and appreciation of the arts, vast avenues of experience are closed to him.

All young people can never become artists, but since art is a visual statement of life, it is a language which a student can appreciate even if he cannot understand it. The art courses in Kansas schools should be an integrating force in training our students to make the necessary adjustments essential to their healthy assimilation into adult society of a democratic people.

We feel that a student who is educated without art is not truly educated at all.



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Introduction

We emphasize the provision of creative art experiences for every student. This is based on our belief in the unique quality of each individual, his need for self-fulfillment and the importance of his contribution to the lives of others.

Certain expressive qualities of music, the dance and the language arts are shared by the visual arts. However, creating in the visual arts is unique since it is the only way in which a student can give tangible form to his experiences through the manipulation of various media. Moreover, expression in the visual arts is not hampered by limitations of language nor by the lack of specialized skills associated with music, the dance or creative writing. Another very important aspect of the visual arts is that the nands which create an object can feed it, hold it, and experience it again and again as a source of satisfaction and beauty. In a world of mechanical wonder the hand-made object becomes a prized possession.

Although the opportunity to give form to experience is important for the average student, it is particularly important for the non-verbal student and for those who are verbally gifted. For the former, who cannot adequately express knowledge or feelings with words, it offers a way to break through and to communicate. For the verbally gifted student, who may tend to talk about his experiences rather than become physically involved in them, creating in the visual arts offers other methods of self-expression.

In the visual arts a student is confronted with the need for self-direction as he searches among many possibilities for the best way to express his own ideas. A very young student usually makes spontaneous and direct art statements about what he knows and feels. As he matures, his work becomes more complex. Through art, his active curiosity and sense of newness, adventure, and play can be encouraged. Opportunities arise to develop his ability to experiment, to observe, to plan, to select those means and materials which best express a particular idea. Through art, students can become aware that they have many special things to say and can develop confidence in their ability to say them.

As a growing student seeks to cope with the world about him, to explore it, and to find his place in it, the visual arts provide a means of forming concepts and organizing them in a way that has meaning for him. These concepts, and this organization of them, changes as he matures. His mind explores possibilities, rejects some, accepts other, and finds new solutions as his work progresses.

He feels an urge to establish order and begins to organize many random concepts toward the expression of an idea. Growth in a student is evidenced by the ability to organize his new responses to situations, to express these in forms that satisfy him, and to convey his ideas to others as he paints, models, and constructs. At every stage of growth through art, a student affords us an insight into his world of experiences.

Art experiences, particularly at the early age levels, afford a freedom of expression not commonly associated with other areas of learning. Art, for example, cannot be evaluated in the way that arithmetic, spelling, or science are evaluated. A student's creation can be judged only in terms of his own intent and his own ability to achieve that intent. In approaching the judgment of students' work in this light, we can foster in them the confidence and freedom which, in turn will further their growth through art experience.

Pleasure and enjoyment are important ingredients in the art experience. For the student, as for the mature artist, the process of creating allows him to be completely himself, closest to his own desires and relatively untouched by the conflicting and sometimes arbitrary demands of the outside world. In working out his feelings in his own way, he experiences the pleasures of self-realization known to artists in all fields of endeavor.

Art contributes directly to various areas of school work. It is a broad field which cuts across all subject matter and which can be used to motivate children in other work. It can carich a learning situation and make it more vivid and memorable. Art can also be used to unite ideas and show relationships which might otherwise remain remote and theoretical to the student. However, in these related roles, art must not be made to lose its creative character.

The art program must provide truly creative experiences and the student must be seen in many situations to realize the full and unique contribution of the visual arts to the educative process.



Philosophy

An art program should fill the general educational needs of all students and integrate more specific subjects into the harmony with each other and with art itself. Creative expression is vital to the development of each individual student and should provide opportunity for self-improvement and a growing interest in the student's surroundings. This can be done only by thinking through exploration and experimentation. This sensitivity to all living experiences can help the

student develop good taste in selecting not only works of art but also consumer products. The student should benefit from art in his effective use of leisure time and should be encouraged to develop his talents to the utmost. While skills and technique are necessary to real satisfaction, the experiences must be kept within the student's ability. Art Education will offer therapeutic benefits to many and most important, will lead the way to self-expression and freedom in thought.

The Art Program

- BUILDS—the concept that art is seeing, touching, experimenting, exploring, choosing, expressing, appreciating, and enriching.
- GUIDES—and encourages the child to fulfill his desire for self-expression by developing his creative abilities.
- DEVELOPS—the child's ability to select, to arrange, or to make objects more attractive for use, and stimulates him to improve that which is unattractive in his environment.
- STRENGTHENS—group relationships through sharing ideas in individual and group projects.

- HELPS—the child to understand that good design enhances the economic as well as the aesthetic value of any object.
- PROMOTES—desirable workshop attitudes and gives training in the selection, preparation, and care of tools, materials, and facilities.
- PROVIDES—ample opportunity for all children to experience working with many materials including those which are native to their community.
- AIDS—the child in developing interests and skills which lead to the enrichment of leisure time activities.

The Role of the Administrator

Teachers, because of their responsible positions, are constantly looking to their administrators for leader-ship in

Curriculum Development to:

• give impetus to a program of curriculum revision and development that meets the needs of the constant growth in art activities necessary to keep pace with the total learning process and the normal growth in children.

Improvement of the Teaching Process to:

- act as a resource person.
- plan meetings for teachers and supervisors.
- provide in-service improvement opportunities.
- consistently help each teacher develop a feeling of professional dignity and importance.
- aid supervisors and teachers in evaluating the art program.
- encourage the idea that the arts are a necessary part of the curriculum.
- become acquainted with the whole art program.
- help teachers and supervisors plan and implement an effective schedule.
- provide adequate art supplies, space and equip-

ment for a well organized art program with a wide range of activities.

- visit the art classes often.
- provide funds for books and magazines for the professional library used by the faculty.
- read the material in order to prepare himself for leadership in encouraging and aiding his faculty in their efforts to provide the creative experiences in art.
- encourage the continuing study and evaluation, by his faculty, of the opportunities they are providing their students in the arts.
- exhibit an interest in the work of his art teachers, compliment their efforts when due, and share their problems in a cooperative way.
- encourage the use and purchase of prints, reproductions, films, and slides of art works.
- make every effort to send art supervisors and teachers, with financial aid from the school, to conventions and workshops.
- if possible, attend such meetings and workshops himself.
- encourage his teachers to join and be active in professional art education organizations. (KAEA, NAEA)



The Role of the Teacher

The role of the teacher in the art program is to

- make the child aware that seeking is learning, that a large part of growth in art depends upon the ability of the individual child to enjoy looking at his environment from various points of view.
- win the child's confidence and respect.
- create an atmosphere in which the child can be happy as he grows and works.
- make many tools and materials available so that there is an opportunity for choice when expressing ideas.
- make effective use of instructional aids.
- help the child develop confidence in himself.
- encourage individuality in expression.
- help the child to recall and clarify experiences in order to assist him in organizing his ideas.
- introduce, within the child's understanding, the art elements and principles of organization to help him become aware of rt terminology.

- show the ways of handling tools ..nd materials most effectively.
- help the child evaluate and appreciate his own efforts.
- develop an appreciation for the universality of art.
- foster within the child a "love for doing."
- make use of numerous opportunities to integrate and use art as a part of school and community activities.
- a look at the supervisor for help and guidance, but direct the art activities of the pupils in the classroom.
- see that materials are properly distributed before the art lesson, and the classroom is left clean and orderly after the art period.
- keep a portfolio of samplings of each child's work to evaluate programs.
- express personal enthusiasm and maintain professional alertness.

The Role of the Parent

The art teacher should inform parents of the role of art in the school curriculum. Parents can more successfully contribute to the total education of their children when they understand the importance of art in everyday living.

Parents can help their child grow through art experiences when they:

- recognize that art is a vital part of every young child's play and learning experience.
- study child development in art and gain some understanding of what children do with art.
- respect child art, however crude it may seem, as a natural means of communication.
- encourage the child to express himself at his level of ability and not with reference to adult standards.
- realize that experiences with art materials are essential for creative learning to all boys and girls.
- take the responsibility for arranging time and for providing the child with needed tools, materials, and

space for work in the home; do not give him coloring books.

- arrange for family art exhibits in a gallery spot at home through which appreciative attitudes and values may be gained.
- ask the child to tell you about his art work; do not criticize unfavorably; try to understand the child's art.
- participate in art activities with the child and enjoy it with him; allow the child to express his own ideas; art is individual.
- help establish good craftsmanship.
- note the sincerity and freedom with which a child expresses himself when he is working in an atmosphere of understanding.
- see and help your child to see the interesting and unusual things in nature.
- help the child to develop an awareness of the design quality in things used every day.

School-Community Relationships

As a teacher one of the important duties is to interpret the children's school art program to the parents. Opportunities for this are provided through open house displays and discussions with parents, through P. T. A. meetings, through the use of art education films, through conferences and meetings, and through individual folders of children's work which show progress. Parents should be very much interested in guiding children to observe, think, experiment, and work creatively with art media at home rather than provid-

ing them with coloring books, patterns, paint-by-number sets, and how-to-do-it kits.

Children's Art Should Be Seen:

- in the classrooms, halls, principal's office, teachers' lounge, and lunchroom.
- in public buildings, museums, libraries, community centers.
- in store windows.
- at outdoor exhibits.
- in homes.



The Community Engages in Art Activities Through:

- adult art education workshops, lectures, films, demonstrations.
- TV art programs.
- classes where children and parents work together.
- art publications.
- community art groups.

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The Community Provides Resources Through:

- summer and after-school programs.
- persons with special art abilities.
- museums, schools, parks.
- colleges and universities.

Art As Creative Education

Art is a way of enriching life. With understanding guidance, it can be an important educational tool in developing the whole personality. Therefore, the art program should reach all students, not just the talented few. It must be a vital part of the curriculum in every school.

irt education can discover, challenge, and develop tal ented students and provide for leisure time activi-

ties. Art is a way of doing and can be correlated with all the other areas of learning such as social studies, literature, science, mathematics, shop, homemaking, music, agriculture, dramatics, physical education, health, foreign languages, and social activities. Art can enhance the beauty of classrooms, buildings, and homes.

General and Educational Objectives

The outstanding function of a program of art education for all young people must be to assist them to arrive at a well-balanced creative, intellectual, physical, moral, spiritual, emotional, and social maturity.

In order to achieve this end, the art program should function as follows:

- Provide opportunities for building spiritual values by fostering artistic development.
- Encourage creativity by providing opportunities to express and create.
- Develop greater powers of detailed observation and visual judgment.
- Help pupils to develop self-awareness, self-direction, self-confidence, and a sense of responsibility.
- Help all pupils to achieve their highest potential.
- Develop and enrich the personality of students through a variety of creative experiences.
- Encourage pupils to visualize ideas, thoughts, and feelings in original expressions.
- Help pupils increase the uset of imagination and resourceful thinking in solving art problems.
- Provide for pupil growth by encouraging experimentation, creativity, and evaluation of his progress.

- Offer activities which develop understanding of the characteristics of many materials by exploration.
- Develop learning and techniques necessary for creative growth and personal expression.
- Develop pride in craftsmanship.
- Encourage good work habits and respect for materials and tools.
- Develop self-confidence and satisfaction in accomplishment and in the production of original ideas.
- Develop individual initiative as well as group responsibility.
- Provide opportunities for more specialized instruction in the field of art as the student matures.
- Provide advanced art education for those with unusual ability.
- Deepen understanding of the vocational and avocational value of art.
- Increase critical judgment for selections of the fine art and industrial art products to be used in daily living.
- Develop responsibility to self, home, school, and community.
- Develop appreciation for the heritage of fine art and all eras of history.

Goals for Art Education

- To develop a sensitivity to and an appreciation of art, man's highest form of expression and communication.
- To promote maximum self-realization of the student through a variety of creative experiences.
- To promote growth in knowledge, insights, concepts, and outlooks through the encouragement of original thinking, creative expression, good work habits and the understanding of materials, media, and techniques.



- To encourage a respect for the work of others.
- To develop character through cooperation and responsibility in group activities.
- To seek out the talented and provide counseling

in the choosing of a vocation and to develop satisfying avocational interests for others.

• To develop an awareness of good design and craftsmanship in order to prepare the student for his future role as a consumer.

Purposes of Art Education

The Aims of Art Education

Education in art should be directed toward each student as an individual. It should integrate the other more specific subjects into an increased harmonization with each other and with art itself. Art education should have opportunities for self-identification, selfimprovement, and a sharpening interest in the student's surroundings. A further aim of art education is to encourage creative thinking through exploration and experimentation and to increase art knowledge and skills. Art training should increase sensitivity to all living experiences and help the student develop good taste in selecting consumer products as well as works of art. The student should benefit from art in his effective use of leisure time and should be encouraged to develop he talents to the utmost. Art education will offer therapeutic benefits to many, and most important, will lead the way toward self-expression and freedom in thought.

Purpose in Arts in Elementary Education

The student should be helped to use art in all its forms and to identify himself with his art experiences. A well organized art program provides for a wide range of activities that will be adequate to the child's needs and interests. Activities should be considered in relation to the whole learning program of the student. The

growth and changes in a student's behavior are the most important and are indicated by the product of his hands and mind. His work should grow out of his mind and soul. The foundation of art experiences laid in the elementary level is of great importance in developing a lasting experience.

The ability to draw is not essential for the elementary teacher in the development of an art program. The most important is his ability to inspire and stimulate the students and to evaluate their art work in terms of their creative growth.

Purpose of Art for Secondary Education

In the secondary level, the art program is needed to insure maximum growth and development of the student. It must be there to complete the tasks begun in junior high, for this is when the individual is beginning to mature. Art education will provide guidance for the future and foster active community interest and participation. Its purpose is to provide for an environment that will stimulate the integration of art; enthusiasm for worth leisure time; and provide motivation for the application of techniques and processes. Through art, the student will have reached a better understanding of society and have increased his interests in the pleasures of life.

Phases of Child Growth

The child makes pictures as naturally as he walks. Probably you noticed that even before the child learned to walk he was exploring space with his arms and legs. Around the age of two the child will be grasping any object within reach and begin his scribbling—a series of unorganized lines on the floor or wall.

Continued development of the child will show some organization of his scribbling and then the use of symbols to express ideas. A line circle becomes a head, under it the body, legs and feet—two straight lines.

The child can picture only what he has experienced although this experience may be just in the child's imagination. People, rather than things are pictured. Teldom does a child paint until both his thinking and feelings have been stanulated. You offer this stimulation by discussing with your child his experiences,

taking him to see interesting things, reading stories and poems to him, and having music on records which he can enjoy.

Young children do not see depth and distance. Often a primary school child will draw a picture of "My House" by showing the family living room. The Thanksgiving table is laid flat as if the young artist saw it as he dangles from a chandelier. A football field is flattened. To an adult it would appear that the goal posts and players were lying instead of standing. This is normal and usual.

The teacher can aid the child in his development. You cannot force or hasten. You can encourage by providing space and materials for the child's use. You can show interest and appreciation of the child's efforts. You can refrain from comments such as: "But you can't make a horse." "That doesn't look like a



soldier," "Let me show you how it should look." Rather say: "Do you want to tell me about your painting?" "I like that," "What lovely colors you have made."

Research studies of children's art work have shown that there are stages of growth and development through which children pass. The art program is based on the finding that children learn best by experimenting with materials and that children gain the confidence to think, feel, and express themselves when they are given time to work at their own pace and in their current developmental stage.

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It has been found that some children pass rapidly from stage to stage while others have periods of little or no apparent progress.

Stage 1-Manipulative and Exploratory.

Stage 2-Intuitive Design, Circular Configuration.

Stage 3—Conscious Design, Deliberate Design.

Stage 4—Planning and Organizing, Preplanned Design.

Stage 5—Expressing Near and Far. Modified Design. Stage 6—Increased Realism, Expressive Design, Craftsmanship, Ingenuity, Dramatic Simplicity.

Kindergarten Art Characteristics

The role of the kindergarten teacher in regard to art is primarily to provide the child with appropriate materials, and uninterrupted time for an aesthetic experience. The teacher should have no preconceived notions about what the child should accomplish, but should accept his work without asking for an interpretation.

Due to the varied background and experience of children entering kindergarten many stages of development will be observed among children of approximately the same chronological age. Children who have never had any art experiences may exhibit very early stages of development.

It is important to let the child work at his own level of accomplishment. For this reason the art characteristics of pre-school children are given here.

Art Characteristics: Age 2 - 4

Child takes random marks on paper in effort to gain control of tool.

He attempts to pile blocks.

He squeezes and punches plastic materials.

He is not trying to draw, model, or build objects; the experience is purely kinesthetic.

Art Characteristics: Age 4 - 7

Ideas are expressed by symbolic lines and shapes. Shapes become more controlled and as the child advances, he can reproduce shapes at will.

Detail develops gradually.

Usually only parts important to the expression are used. (If legs are not important, they may not appear on the figure.)

There is usually no relationship of color to object. Color is emotional.

Art Characteristics: Age 8 - 9

The child expresses what he knows, not what he sees. He divides his paper into three areas—a ground (sometimes called base line), air, and sky.







He often exaggerates the things that are important to him.

He has discovered the relationship between color and objects.

He may show episodes occurring at different times in the same picture.

He may draw pictures from both sides of a center or all around a center.

He may make X-ray pictures. (X-ray picture is a name for another interesting non-visual way of drawing to show different views that could not possibly be seen simultaneously. He depicts the inside and outside together whenever, for the child, the inside is emotionally of more significance than the outside. Frequently, both are used according to how much meaning either the outside or inside has for the child.)

Art Characteristics: Age 10 - 11

His awareness of color is more acute; he is more color conscious.

He uses color more realistically.

He becomes self-critical.

His figures may become still with great emphasis on detail.

He may leave out people because they are "too hard to draw."

He may copy from others because of insecure feelings. He often desires to label objects and give words to people and objects.

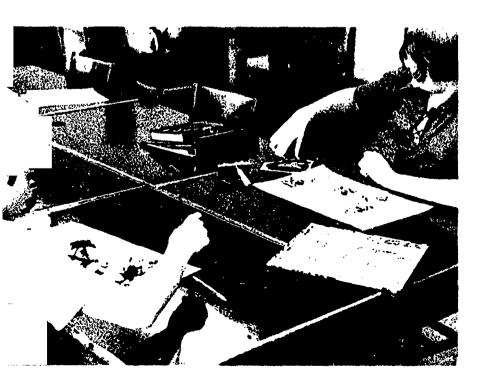


His ideas come from real life experiences, from flight of fancy, the world around him, imagination, and television.

He may overlap objects in his pictures.

There is some continued use of exaggeration of important parts.

Junior High Art



The junior high school student is at a traditional stage in his development. He becomes increasingly more aware of adult standards and grows more critical of his work. For this reason it is very important that art experiences be enjoyable, useful, and challenging. This should be a period of exploration and discovery.

In this guide we have included many processes and materials for exploration to meet the varying needs and interests of children from ages 12 to 14. It is not expected that the teacher will have time to introduce students to all of the activities. Bather, this should be left to the discretion of the individual teacher. He or she should strive for a good balance between various two- and three-dimensional problems as well as art appreciation experiences.

All learning in art and crafts should contribute to growth of the child's knowledge and of his ability to use the elements of art and the basic principles of composition.



Goals for the Junior High Art Program

The student's appreciation of the relationship between art at d daily living.

An opportunity for the child to express himself creatively and grow through a variety of experiences.

Help the child with the form and function of tools and materials and standards of good design and craftsmanship.

An appreciation of art of the past and present as a form of communication.

Art with all other areas of the curriculum.

Independent thinking and flexibility in problem solving.

Develop the student's awareness to the possibilities of a rewarding hobby or career in the art field.

Cooperation in group activities and respect for the work of others.

The experience of working with a variety of materials, tools, and equipment which may later lead to a vocation, a rewarding hobby, or good use of leisure time. An opportunity to study the possibilities and limitations of these materials, to design and execute aesthetically satisfying as well as useful objects.

Participation in group activities, thus giving a sense of belonging and self-realization through achievement. An appreciation of the role crafts has played in the history of civilization, of the relationship of crafts to industry.

A respect for good craftsmanship, forms and designs appropriate to the materials used, and functions for which the objects are designed.

Individual responsibility, good work habits, the care of tools and equipment.

Growth and Development: 12 - 14 Years

PHYSICAL GROWTH-

Has periods of rapid physical growth characterized by periods of sluggishness and lack of skills; applies enormous expenditures of energy in daily tasks.

BEHAVIOR PATTERNS-

Is mainly concerned with the "peer" group and achieving status within his environment.

Is responsive to worthwhile tasks.

Desires attention.

Has frequent "crushes."

Has a tendency to deny interest in things and people he likes.

CHARACTERISTICS OF WORK-

Is able to do progressively intricate work.

Is very much interested in material things.

Is very realistic in his work.

Is at times careless—at times meticulous.

Makes work to be "kept."

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REQUIREMENTS-

Requires satisfaction of physical needs.

Needs to understand and gain control over environment (role playing).

Needs to become a social personality

Needs to develop and maintain ever-widening and deepening intellectual and aesthetic interests.

Needs to further the cultural value system.

Needs to engage in large group activities in organization such as stage projects, puppets, decoration.





Senior High Art

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The art program in the senior high school is an extension of junior high school learning experiences, but with significant changes in emphasis. The work at this level is more technical and advanced, it involves more processes and should offer increasing challenges to the students' abilities with special interests being developed more fully.

The art curriculum must meet the needs of individuals whose goals in life vary greatly. It must meet the particular needs of those preparing for college, those terminating their formal education with high school and those electing courses for the purpose of making further educational and vocational choices. A significant degree of creative independence and originality should be expected from every individual who faces this program.

Goals for the Senior High Art Program

A sensitivity to and an appreciation of art.

The importance of creativity, originality, thoughtful planning, simplicity, sensitive execution, depth, force, variety, and respect for craftsmanship.

A knowledge of the elements of design and the principles of composition.

Growth of character of the individual by encouraging him to follow all projects through to satisfactory completion.

A respect for the work of others.

To provide recommendations in the choosing of a vocation.

The appreciation for art during that stage of development when many young adults are undergoing stresses and changes.

Respect for good craftsmanship.

Appreciation of art forms and a growing sensitivity for design and good taste.

Develop techniques and increase skills.

Appreciation for the history of different crafts—their value to the growth of civilization and their relationship to contemporary living.

Understanding of crafts as it applies to industry.

Honest creative effort in designing a useful or decorative object and developing it to its conclusion.

Individual responsibility and leadership.

Working with various materials, to explore their possibilities and their limitations.

Individuality in an age of conformity and regimentation.

Profitable and intelligent use of leisure time.

Growth and Development: 15 - 18 Years

PHYSICAL GROWTH-

Continues to grow and takes on appearance of a mature individual.



Has a wide range of physical development at this age.

Is self-conscious about his physical appearance.

Has emotions that may be very intense.

BEHAVIOR PATTERNS-

Is prone to hero worship.

Holds material things as symbols of success.

Tends to censor his actions according to the conventions of the society in which he lives.

Is very sensitive to criticism.

Evaluates himself more critically.

Reports authority—conflict with parents and teachers who treat him as a child.

CHARACTERISTICS OF WORK—

Tends to be more illustrative in drawing and painting.

Demonstrates more ability to interpret art in a more abstract manner.

Shows more specialized interests—crafts, painting, commercial.

Increased in skill and ability to concentrate on work. Is more likely to have a vocational interest in art.

REQUIREMENTS-

Needs personal economic security.

Needs to experience success and seeks areas in which he can achieve recognition.

Needs specific training and techniques.

Will need special considerations depending upon his needs.

Needs to be given the opportunity and sufficient time to practice in order to develop skills.

Needs to be guided in developing techniques of evaluation and to be helped to appreciate the work of others.



Suggestions for the Use of this Guide BEST COPY AVAILABLE

This curriculum guide contains suggested lessons, processes, and materials which the writers feel are basic to any program for art and crafts. The teacher who uses this guide should not be limited by its contents but should use it as a point of departure.

It is hoped that teachers will use the art and crafts sections interchangeably since art and crafts are so closely interrelated. The boundaries between elementary and junior high, junior high and senior high school need not be considered hard and fast divisions.

The units included are applicable to each grade level or individual. But the degree of pursuit and exposure should be increased in proportion to the ability and maturity of the individual student and the class.

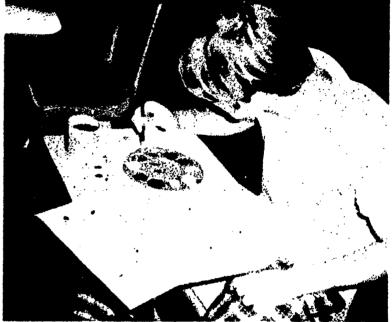
It is believed the course should be given in a manner which will foster structural thinking. The experiences are planned to give the student an opportunity to seek his own answers, and to develop creative initiative.

The basic course should give a foundation for building further art experiences and for introducing specialized skills. The student can more intelligently choose specialized courses if those subject areas are briefly discussed thus offering the student direction, purpose, and goal.

A Theory of Color

Color may be regarded by the student as something which is restricted solely to the art class. This con-





When truly presented, art awakens awareness in the student of his creative ability. He finds satisfaction through art experiences and develops confidence through this self-expression. This course should provide a basis for an understanding of the arts for the student who plans to take only one art course, and an adequate background for the student who will take further courses in art.

This study should proceed from an awareness of those factors underlying creative art and their apparency in all the arts and crafts. Enjoyment of beauty in nature and art should be promoted through experience with fundamentals to develop a broad and lasting appreciation. The difference between true art quality and superficial effect is important to the student as a consumer. Practical help in developing taste and a contemporary viewpoint of design for daily living should be offered.

cept should be broadened so as to include color as part of his daily experience. Color surrounds him; yet he may have lost the uninhibited joy of color sensation he possessed as a young child. The teacher should strive to reawaken an appreciation of color by presenting it as a force acting upon him and his environment.

Scientists have shown, through experimentation with plants under filtered light, that color affects vital growth. The invisible portion of the spectrum—infra red and ultra violet—is widely used by scientists and physicians in maintaining and restoring health. The therapeutic value of color is recognized by the psychiatrist. It becomes an instrument through which he can diagnose conflict in the emotionally disturbed.

The commercial world is fully aware of color as a means of making products attractive and color has been an eloquent salesman in magazines, outdoor bul-



letin, and displays. The student will be taking his place in the community as a consumer of manufactured products, as a home owner, and as an individ-

ual directing the growth and planning of his city. The teacher will realize the opportunity for helping the student develop attitudes and taste concerning color

REFERENCES:

The Enjoyment and Use
of Color.
Walter Sargent
Color and Colors,
Matthew Luckiesh

MEDIA White paper Prism

NOTE TO 2b:

An example would be to recall the experience of seeing iron heated. Heat causes the molecules to vibrate which in turn produces light waves that the eye receives as color—red, yellow, to white.

NOTE to c(1):

Show the effect of this factor on display work where colored light can distort the appearance of products. Where colored light affects mood. How it helps in merchandising and sales.

I. COLOR

- A. Color as a property of light.
- 1. Objective—To explain that light waves determine the colors we see, and that the colors of objects exist only in our consciousness.
- 2. Method—Use demonstration, lecture, discussion together with any practical application which can be carried out with available material and equipment.
- a. Show that light is polychromatic by refracting and dispersing it through a prism: (Violet, blue, green, yellow, orange, red.) Other natural examples: rainbow, oil on water, soap bubbles, etc.
- b. Explain that sub-atomic vibrations produce electro-magnetic waves that are of different length and frequency. The length of these waves determines the color; i. e., the longest produces red—the shortest produces violet.
- c. Reflection and absorption determine the color of objects.
 - (1) Color of opaque objects depends upon both the color reflected from the object, and the color of light that falls upon the object.
 - (2) Color of transparent objects depends upon the color of the waves which pass through them. Ordinary window glass transmits all colors and is said to be colorless, while colored glass absorbs all colors and transmits its own color.
- d. The primary colors of light are red, green, and violet blue. (These three colors are related to response factors in human vision which transform mixtures of wave lengths into mixtures of colors.) All possible colors produced through the mixture of these primaries are yellow, red-blue, and blue-green.



The light theory has been introduced in this guide to explain the origin and perception of color. Presentation of the light and pigment theories can lead to confusion if one makes extensive comparisons between the two. It might be better if one explains that we receive the sensation of color from pigments of the light color theory. The relationship between the two theories would be through the pigment primaries which are in reality the light complimentaries. The reason for this is explained by the following combinations of light primaries: Red and green light produce the sensation of yellow; green and blue the sensation of blue-green; red and blue the sensation of bluish-red. It should be mentioned also that when the pigments are mixed, they produce the sensation of green. When pigments are mixed each one subtracts certain colors from white light with the resulting color dependent upon those waves not absorbed. The yellow pigment subtracts certain colors from white light with the resulting color dependent upon those waves not absorbed. The yellow pigment subtracts blue from white light; blue-green subtracts red from the white light. The sensation of green is produced because it is the only color not absorbed.



NOTE:

Discuss the use of colored light in display, stage, exhibitions, etc. Explorations of colored light can be carried out with the use of colored gelatin (used in stage work) and a slide projector. Interesting "light paintings" can be made using a non-objective approach to composition. The physics teacher might be called upon for apparatus and teaching aids used in his department to demonstrate color.

REFERENCES:

Art of Color and Design,
Graves Maitland
Principles of Art
Appreciation,
Stephen Pepper
Color Systems,
Hiler, Munsell and Ostwald

NOTE:

After discovering the factors contributing to color perception, the student introduced to a study of color using pigments. The teacher is urged to present color and other areas of this course simultaneously. The student more readily grasps the theory of color, if it is applied to practical situations.

MEDIA:

Poster paint White paper Brushes Scissors Glue

NOTE:

Knowledge of color mixture and matching can be gained through practice only. Working on individual chips of paper frees the student from fear of having a complete color exercise to do over if a mistake is made. These examples are arranged to see the relationship of the bues of the color wheel, but do not paste to a background. They may be used later in other color experiments. The student can arrange the color examples on a black paper background in warm and cool groups. The spatial effect of color can be observed at the same time.

B. The Pigment Theory

- 1. Objective—to present primary (hue, value, intensity) and secondary (warm and cool, advancing-receding, etc.) characterizations of color as a basis for color organization in painting at insign.
- 2. Method—Use demonst cation of material presented , lecture, discussion together with student appli-
- a. Primary characteristics of color.
 - 1. Pigment primaries and lemon-yellow magenta, and cyanic. (The teacher will find a need to adjust the pigments available to attain these hues.)

HUE—Refers to the chromatic quality by which we distinguish one color from another, i. c., red, blue, green, etc. To change a hue we must mix another to it. Thus our color wheel is expanded.

VALUE—Refers to the relationship of a color to white and to black, i.e., dark red, light red. The value of a hue may be altered through the mixture of black or white. A value scale may be constructed with nine value steps from white to black. Thus, tints, and shades can be matched to this scale to show value as a color characteristic.

INTENSITY—Refers to the strength of a huc and is the opposite of grayness. The intensity of a huc may be reduced through mixture with gray or with its complement.

b. Demonstrate how mixtures of the primaries produce intermediate hucs which in turn produce variations. Use of poster color should be explained and the method of achieving smooth application by employing a wash technique. The student should prepare a number of hucs and paint them on shapes of white drawing paper to cut a uniform size (1" x 2" for example). Ten hues would be sufficient for this exercise and would make a complete color wheel,

COMPLEMENT HUES—Are those which appear opposite each other on the color wheel and which produce a natural gray when mixed in the proper proportions.

c. Complementary hues can be shown to the student, using a color wheel, but the after-image experiment has more lasting value. Experimentation in producing complements should be followed by their use in graying color. Show how side-by-side complements enhance each other. Mention the value of grayed complements to color organization.

TINT—Refers to the mixture of white with a hue. In transparent water color a tint would be produced by dilution of the color.

SHADE—Refers to the mixture of black to a hue which is either opaque or transparent.

- d. Colored examples should be prepared using the ten hues (see b) as a basis for mixture with white and black. Reference should be made to the gray scale and to show that value is present in tint and shade.
- e. Secondary characteristics of color (so termed because they are present only by the virtue of the existence of the hue.)
 - (1) Quality and vibrancy in color can be produced by a mingling of hues of nearly the same value and reflected from the same surface. A plain hue lacks interest. An area of blue may, on closer examination, contain greens, purples, violet-browns all mixed in the eye of the observer to produce a vibrant sensation of blue.
 - (2) Warmth and coolness.

Colors in the red, orange, yellow portion of the spectrum seem to convey warmth, while the greens, blues, violets convey coolness. It can be used to evoke emotional effects for warm colors are associated with fire, comfort, friendship, and love. Cool colors may be used to suggest solitude, loneliness, aloofness, age, and death.

(3) Advancing and receding color.

Color exhibits spatial effects which the artist can use to his advantage. Cool colors retreat and warm colors advance, but the effect is not strong and may be upset by other spatial hues in drawing. Dark hues sometimes exhibit characteristics of sinking into the picture plane. The spatial effect of color is strengthened through saturated color.

(4) Weight

Dark colors appear to be heavier in color usage. This can be employed to advantage in color balance. Delicacy can be shown with tints and light hues; strength can be shown with shades and dark hues.



NOTE:

Demonstrating the effect of after-image is an exciting way to introduce the complementary colors. Place any hue on a white background and stare intently at it for 30 seconds. Remove the hue example and stare at the blank white paper. The complement will appear in the place previously occupied by the hue example.



NOTE:

The problem of light and shade lends itself to integration with the entire course. Washes of transparent water color could be floated over the drawings. Advancing-receding color could lend emphasis to the spatial effect.

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- C. Harmony
- 1. Objective—to present some established methods for finding color harmony.
- 2. Method—Harmonies can be explained to the student as consisting of hues in varying combinations which produce a unified whole. The color harmonies should not be prepared for their own sake, but should be part of a painting problem dealing with one of the areas of this course. If we are to teach students to work creatively, then we must foster individual solutions to color harmony.
- a. Complementary harmony is made up of directly opposite hues on the color wheel.
 - (1) Split complementary harmony is made with a hue, plus the colors on each side of its complement.
- b. Analogous harmony is made up of hues adjacent to each other on the color wheel.
- (1) Split analogous harmony is made by skipping one of the adjacent hues and using the next. Two adjacent colors may be too close to be appreciated.
 c. Triadic harmony is made by combining three hues equally spaced on the color wheel
- d. Monochromatic harmony is made with one hue and one or more of its tints or shades.

The student now has a knowledge of color which needs only to be applied to develop sensitivity and taste. Everyone has a feeling of color, but mistrusts it when called upon to use it. The student's contact with color in "Wonders of the Arts" did a great deal toward re-awakening the joy in using color. Free experimentation with color mingling, etc., is important in developing a creative attitude toward this subject.

II. LIGHT AND SHADE

- A. The illusion of volume (three-dimensional form)
- 1. Objective—To demonstrate the effectiveness of light and shade to create a three-dimensional effect.
- 2. Method—Crumple a sheet of newsprint (12" x 16") and then open and partly flatten the sheet. Spray the paper from one direction, using a spray gun, a fixative sprayer, and diluted poster paint. The paint will hit only the planes facing the spray. When the paper is completely flattened out the illusion of jagged and raised sections will be highly realistic. This simple experiment will demonstrate planes of different value, emphasized edges, and gradation.
- B. Volume expressed through light and shade.
- 1. Objective—To learn to define volume through light and shade.
- 2. Method—Have the student draw simple objects using the side of the lithographic crayon. The edge of the object is defined by the broad stroke of the crayon which creates the effect of shade. The "light" edge of the object can be suggested by carkening the background and producing a contour through contact with adjacent areas.
- C. Distinguish planes through light and shade.
- 1. Objective—To see an object bounded by planes whose surfaces reflect differing quantities of light.
- 2. Method—The student should draw a cube using three different values to separate the planes. The cube should be related to a picture plane of a particular value. Definite value separation of the surfaces of the cube will create a solid three-dimensional effect.
- D. Emphasizing edges of planes.
- 1. Objective—To heighten the effect of volume through a dramatization of the edges.
- 2. Method—The student should use a subject which his interest suggests. Indicate the object lightly with the side of the lithographic crayon. After value relationships are decided upon, emphasis is placed on edges or corners, or curved surfaces. The method is to contrast light against dark and dark against light. A great deal of solidity can be obtained with this technique.



MEDIA:

Newsprint
Drawing paper
Pens
Ink
Chalk
Water color
Poster color

III. FIGURE DRAWING AND PORTRAITURE

A. A variety of approaches.

- 1. Objective—To continue the exploratory approach to constructing the figure to enable the student to "discover" a method with which he has success.
- 2. Method—Suggest a series of rapid techniques for recording the figure. Employ a variety of materials allowing the student to discover his own methods of combination. Suggestions: (a) "meandering line" seeking to build up mass and contour. Ink or pencil could be used, together with a wash of water color, (b) colored mass of rubbed chalk—chalk dust applied with felt pad and ink brush line, (c) shaded areas brushed in directly with poster colors and "light" areas detailed with line. This type of approach maintains student interest through variety of technique and media. These drawings should be direct and rapid to develop the student's confidence in his judgment of employing line and mass to express form. These drawings may be timed if the teacher feels it would be helpful.



B. Figure Study

- 1. Objective—To gain exact information and to develop skill in drawing the human figure.
- 2. Method—Demonstrate to the student a logical approach to blocking out the figure with emphasis on proportion and balance. Using the head as a basic unit of measurement, the student can control proportion. Information on proportion of the figure for drawing for specialized fields should be mentioned at this point. The student needs help in simplification of his drawing and in developing the large masses of his drawing before attempting detail. Simplified methods of drawing the features of the head and hands would be helpful.

C. Figure Composition

- 1. Objective—To compose figures singularly and in groups relating them to space.
- 2. Method—Have the student compose groups from the sketches made for figure study (Sec. B). The poses might be slightly altered so the figures will not have a "labored" appearance, which often results from redrawing a figure. The application of perspective to figures and surrounding objects will give a unified effect.

Figures sometimes appear "floating" or "passing through" solid objects, or "standing in a pit." A diagram (a) of objects and figures showing the position they occupy on the ground may help to clarify the fault of not allowing enough space for each object (passing through solid objects). A second diagram (b) employing a ground plane and converging lines will clarify the incorrect reference to the ground plane. (Also see Sec. IV, E., Freehand Drawing.) Figure drawing is a rich field for creative self-expression for the adolescent. Portraiture and figure drawing is especially meaningful to this age level, and it becomes a means for the student to integrate art and environment. Expressing, "exestigating, interpretating environment and developing wholesome attitudes towar is a becomes a worthwhile social goal. The student's interest in figure drawing can be easily destroyed by an approach which stresses professional standards.

MEDIA:

Newsprint Charcoal

NOTE:

Up to this point the figure has been presented through exploratory drawings. It may be heneficial, at this point, to have the student work on figure drawings which require close observation and sustained effort.



Suggested Problems



I. COLOR

- A. Introduction of color as a means of student exploration of materials.
- 1. Objective—Through many processes the student becomes aware of color relationships, techniques, and combinations of media.
- 2. Method—Using newsprint or drawing paper, have the student mark off 4" squares. Inside this area color is applied, using a wide variety of applications. Show that color can be applied using tools rather than the brush; for example, sponge, cloth, and sprayer. Mingling, gradation, dry-brush, and floatation of color are expressive means of using watercolor. After student has begun this experimental approach, his interest will carry him into many experiments on his own initiative.

A two inch square cut from a piece of paper can serve as a "selector" which is used to find the best section of the four inch painted area. This section is cut out and can be mounted on drawing paper to form a visual vocabulary. The arrangement of the chart can be a problem in design.

- **B.** Color Painting
- 1. Objective—To become aware of the emotional expressiveness of color.
- 2. Method—A logical outgrowth of color experimentation is a non-objective approach to painting.
- a. Mixed media is successful for this type of work. Suggest to the student to work without a preconceived design, and without a representational aim. Working quickly is most successful, putting down colors as they seem to relate to each other. The student still discovers that he is making decisions concerning color and shape which are dependent upon his own artistic judgment. Shape of the color areas is inevitable and design enters into the painting with the first stroke of color. It is suggested that the teacher guide the student away from undesirable symmetrical patterns. A period of student evaluation should follow these free exercises, and each individual can share his "findings" with the class. Most students enjoy group activities, and this sharing of ideas can become a means of integrating art and social experiences.
- b. The paintings should be developed into designed color shapes. Painting directly, making adjustments as the work progresses, allows for a more "painterly" approach than "filling between lines" of a penciled layout. The student will need help in seeing the elements of painting in their relationship—for example, achieving balance, contrast, and harmony.
- c. Discuss and explore color as a means of consciously expressing a mood, or symbolizing an idea. A variety of materials lend themselves to these color experiences. Printing inks may be used to achieve rich tonal effects.
- d. Printer's ink can be applied by rolling the brayer on the inked glass slab, or by putting the ink directly on to the brayer. A variety of textural effects are possible using both methods in combination.

Transparency of some printing inks is especially appealing and shows the effectiveness of this quality in achieving spatial effects. Masks can be used to enrich the design by holding back ink from some areas, or allowing it to pass through, as the desired effect might require.

Monotype printing could grow from this approach if the teacher felt it would be profitable for the student at this time. Monotypes can be made as follows: Apply printer's ink to a glass slab using a brayer to distribute the ink in an even layer. The format of the design is limited by paper strips which block-out unwanted inked areas on the edge of the glass slab. The inked area inside of the paper strips can be treated in a variety of ways to produce the design.

Drawing, scratching, combing of the inked surface, lifting out areas with paper patterns may be employed by the student. Experiment. Place a sheet of thin paper over a design and rub evenly with a smooth, flat surface to make the print. The paper is then peeled carefully from the glass, and the print is allowed to dry.

Factual information regarding color theory can be introduced as the need arises. The student should know the primary characteristics of color—hue, value, intensity. Class discussion and demonstration may be used to introduce color temperature, weight, spatial effect and other secondary color characteristics. Recognition of these characteristics in art and nature and correct use of terminology may be sufficient in the introductory course.

MEDIA:

Drawing paper Water color Crayon Poster paint Ink Pens Cloth

NOTE:

The student's introductory experiences are in color because of the immediate interest it stimulates. Manipulative technique permits the student to work at his own level.

REFERENCES:

Exploring Art,
Kains and Riley
Art Activities,
Wickiser
New Art Education,
Pearson

NOTE:

Music has been used successfully with this type of painting. The teacher may wish to have the student interpret musical compositions.

MEDIA:

Newsprint Printer's ink Brayer Glass slab Turpentine Spatula Rags

REFERENCES:

Design
Sybil Emerson
(Complete description
of monotype process)





REFERENCE:

Art of Color and Design,
Maitland Graves
Color, Form, and Space,
Faber Birren
Creative Color,
Faber Rirren
Sight and Insight,
Alexander Eliot
The Mixing of Colors
and Paints,
Vanderwalker

MEDIA:

Depends on problems chosen

REFERENCE:

Principles of Art Appreciation, Pepper

NOTE:

Color as an element of design has been presented in Advanced Freehand Drawing, Sec. 1

REFERENCE:

The New Vision, Moholy-Nugy

NOTE:

Rubbings can be made by placing paper directly over the textured surface. Textures might also be printed with pieces of wood, cloth, etc., by dipping these materials in ink or paint and stamping.

MEDIA:

Drawing paper Chalk Pencil Ink Watercolor Crayons

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A concentrated study of color will be presented to the student in Advanced Drawing and Painting after he has a background of drawing and using color.

The intention of Wonders of the Aris is to give the student a variety of introductory experiences, and time may not permit a more detailed study of this subject. However, the needs and interests of the student will determine the time spent on any one area. The effect of color on our lives and its function in meeting the needs of daily living should be the keynote.

II. DESIGN

The exploration of color shapes leads the student to an awareness of design. His knowledge of design should include an understanding of its usage. Thus principles as outlined in this section should include a consideration of the articles of daily living, of dress, and of the home, as well as the "fine arts."

A. Design Elements

- 1. Objective—To acquaint the student with design elements and their characteristics.
- 2. Method—It is suggested that the teacher discuss design elements as they exist in nature and man-made objects. Point out, for example, the graceful line revealed in a blade of grass may also be found in a Japanese brush drawing or a ceramic bowl.
- a. Line—defined as movement—actual or implied—as its basic quality. Discuss empathy—the bodily projection of bodily movement to objects—as strengthening perception and enjoyment of line.
 - (1) Experimentation to produce types of line.
 - (a) Implied line (an imaginary line formed as the eye connects similar points), dotted line, line termini, closure.
 - (b) Adjacent color areas.
 - (c) Draftsman line (weight, length, direction).
 - (2) Line used to convey emotion.
 - (3) Character of line.
 - (a) Ruled line—cold, unyielding; freehand line—confident, timid. Simple compositions can be devised to illustrate the varied character of line. An accidental figure created by dropping damp string can be expressed in a freehand line. Felt brushes (or Flomaster pens) can be used to connect points located at random. Dripping color creates varied accentuated line. Line arrangements could be used to teach two-dimensional space division.
- b. Shape—defined as the contour and mass of an object expressed through draftsman's line or adjacent color (value) areas.
 - (1) Two-dimensional arrangements of line, mass, and color can be drawn in chalk. Experimentation with geometric and free shapes show the endless variations that can be invented.
 - (2) Demonstrate the relationship of positive and negative space through arrangements of free forms.
- c. Texture—defined as an object's surface appearance resulting from its structure of from a change due to nature or machine. The student should be shown examples of natural and man-made texture. Tactile charts of contrasting textures (cloth, sandpaper, wire-screen, etc.) can be arranged to make a collage.
 - (1) Texture created through the use of a medium. Dry-brush, cross-hatching, etc. Natural textures rendered through combined media to summarize experiences with actual textural surfaces and to develop control of media.
 - (2) Texture can express a mood or emotion.
 - (3) The uses of texture for visual interest in fields outside of painting should be considered. Texture as used in architecture, home decoration, and clothing lends a "practical" application to the study of this design element.
- d. Value—Defined as a scale of gradations from white to black. Discuss color and value.
 - (1) A drawing of intersecting shapes can be used for an exercise of value distributing. Mention using key values to achieve mcod.
- e. Volume—Defined in terms of three-dimensional reality and its illusion on the two-dimensional picture plane. The beginning student usually experiences difficulty in expressing volume in drawing and painting. However, representation of space may be better understood if he is made aware of how he understands actual



MEDIA:

Drawing paper Pencil Scissors Stapler Paste or Scotch tape

MEDIA:

All graphic media
Drawing paper
Newsprint
Chalk
Brush
Ink
Poster color
Water color

- space. Explain that seeing and drawing employ overlapping, convergences, and change in scale as depth cues.
 - (1) Through simplified cut paper forms and parallel perspective, the student can be introduced to three-dimensional design and its illusion on the flat plane. Using still drawing paper, fold it through the center vertically to make a right-angle fold. This makes a space construction which serves as a model for demonstrating parallel perspective. (d) Additional cut and right-angle folds, varying the number and direction of planes, develop three-dimensional design, and offer a more complex drawing model.
 - (2) Several geometric shapes representing the elements of a cityscape or landscape can be used to demonstrate scale, overlapping, and position as spatial devices.
 - (3) Paper sculpture can be useful in studying volume relationships which are basic to design in crafts, sculpture, and architecture.
- B. Design Principles
- 1. Objective—To introduce the student to the organizing principles of design and to stress these principles as universal in the visual arts.
- 2. Method—The student should be made aware of the flexibility of these principles—for personal experience conditions their interpretation and makes for variety. Point out the characteristics of the picture plane as the field on which the design elements function.

III. COMPOSITION

- A. Landscape Composition
- 1. Objective—To create an awareness of nature through observation and graphic interpretation of environment.
- 2. Method—Discuss problems related to outdoor sketching. Selecting the subject requires an ability to see and to feel which is more than mere objective vision. The student must learn to see selectively, simplifying the mass of detail to present an organized picture. Show reproductions of various artists' work to point out methods which were used to interpret nature and organize the painting.
- a. Space Representation—Basic perspective should be introduced as the need for such information is felt. A combination of several methods of space representation would offer the student more flexibility in expression. It is felt that over-emphasis on the mechanics of perspective may be restrictive. An introduction to the following would be sufficient:
 - (1) Demonstrate parallel perspective. Show the effect created by overlapping planes, change in scale, and position.
 - (2) Explain how color can be used to strengthen the illusion of space.
 - (3) Demonstrate simple perspective. Explain such terms as "eye level," "vanishing point," and "convergence." None of these methods should become isolated exercises performed for mastery of the technique. Without feeling an immediate need for this knowledge, the student may regard it as a meaningless activity.
- b. Composition—Have the student develop his sketches into an organized composition. Discuss those qualities that contribute to successful organization. Show means by which the elements within the sketch can be readjusted, establishing new relationships. Developing the sketch should be a creative experience, working directly with materials that encourage freedom.
- B. Figure Drawing
- 1. Objective—To meet the student's interest in figure drawing.
- 2. Method—Figure drawing is a favored activity with this age group. The student is capable of interpreting the figure in a variety of media either directly as in a single figure drawn in freebrush or in more sustained efforts as figure groups composed in space. Drawing should be made from both the posed figure and from imagination.

In view of the student's interest in factual representation, the teacher should strive to stimulate an imaginative approach. Drawings made from the posed figure can be valuable in freeing the student from stereotyped representation. Many approaches should be tried, using both visual and emotional stimulation.



REFERENCES:

Life Drawing
John Napper and Nicholas
Mosely Studio
The Human Figure,
David Rebins, Viking
The Natural Way to Draw,
Nicholas, Houghton
Drawing Lessons from the
Great Masters,
Robert Hale,
Watson-Guptill

MEDIA:

Newsprint
Chalk
Brush
Watercolor
Pencil
Conté crayon
Ink
Magic Markers
Ball point pens

MEDIA:

Newsprint Charcoal Chalk

NOTE:

This section might be presented as portraiture, or as supplementury figure drawing experience, depending upon the needs and interests of the group.

MEDIA:

Drawing paper Newsprint Charcoal Pen Ink Chalk Poster paint

NOTE:

A flexible reflective surface such as a silvered plastic sheet when twisted produces a distorted image that presents an excellent illustration of the impact of distortion.

- a. Quick action sketches—Sketches in brush or chalk may be used as introductory experience to figure drawing. The sketch should express the action of the figure. Proportion is sought instinctively. After familiarity has been gained with drawing the single figure, the student should attempt figure groups. Line and mass drawing can be used or both can be combined.
- b. Figure construction—Basic figure proportion should be introduced with emphasis that it is to be used as a guide. The possibility exists that the student may lose the sparkle and freshness in his work if he is made more aware of exact proportion than making an expressive, original statement. Show the articulation of the figure by means of "stick-figure" drawings. Demonstrate simplified methods of drawing hands and feet.
- c. Contour drawing—This activity promotes close observation of the figure and helps the student to store information for imaginative drawing. Stress that sureness and quality of line is dependent upon observation. Later the individual contour drawings can be developed into compositions planning the figures in environmental surroundings.
- d. Portraits—Portraits can be drawn in the contour of mass technique. Demonstrate placement of features in front, profile, and three-quarter views. The students enjoy drawing each other and meaningful group experiences can be developed in which each student poses in turn for his neighbor. Ask the student to look for means of expressing character in his drawings. Show how line, color, and technique all contribute to the total effect. Show prints that may exhibit contrasting techniques used by artists to portray the character of their subject. Simplified methods of drawing the features of the face should be demonstrated. Have the student work directly with the brush and color to paint a portrait of a friend or even his own self-portrait. Show how position and direction of lines can establish mood. The student should try several positions of the head. One period could be set aside at regular intervals throughout the semester to introduce an activity for which time otherwise might not be found. This activity might relate to a problem in progress in terms of subject matter or technique. For example, cartooning might be introduced to supplement portrait drawing, wire sculpture might add three-dimensional reality to the study of line, or experimentation with a different technique might stimulate new interests in painting and

C. Drawing the head

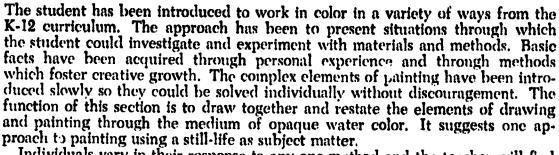
- 1. Objective—To present a basic form for the construction of the head and location of the features.
- 2. Method—Use a basic form for the construction of the head, which is the same type as that employed in the lessons on figure drawing. For uniformity, this guide uses a block form. The merit of this form is that it leads to a better understanding of the planes of the head. Have the student try the basic head in various positions of turning and tilting. Foreshortening can be explained with cubes drawn in perspective. Basic principles in the location of features can be presented in the form of a blackboard diagram. With the establishment of a basic head and the location of the features, the student is introduced to adding the features in generalized form. Experiment with light and shade on the basic head.

D. The Portrait Head

- 1. Objective—To develop a degree of skill in drawing the head and individualizing the features.
- 2. Method—The students use each other as models to keep the features from becoming stereotyped. Poses are varied with the surrounding space. To demonstrate how light and shade define structure, have the student construct a head using only shade. (See Sec. II, B, and diagram a.) Interpretative drawing is a valuable experience for the student and it keeps the drawing from being lifeless recordings. A discussion of the emotional use of color, together with imagination and symbolic use of drawing could serve as a starting point. Visual examples would be the work of Van Gogh, Matisse, El Greco.



IV. APPROACHES TO PAINTING



Individuals vary in their response to any one method and the teacher will find it necessary to enploy means by which the needs of the group can be met. At this stage of deve opment the student has a background of drawing which should enable him to express himself freely. The teacher should suggest methods of "seeing" objects maginatively to aid the student in finding a creative approach. For example, before starting a still-life painting, the following methods may offer

paths to explore in paintings:

- Move about the subject to fuse many views into one.
- Choose an anusual viewpoint or lighting.
- Use an extreme change in scale to create an "unusual" effect.
- Experiment with different space representations.
- Interpret the subject through knowledge of the structure of the object rather than the surface appearance.
- Dramatize the subject through expressive use of color.

With many approaches offered, the student will find one to meet his present level of understanding and will offer a goal other than mimic recording of objects.

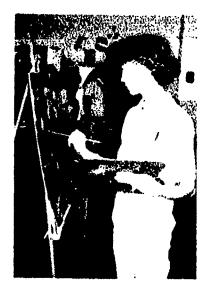
A. Developing the sketch.

- 1. Objective—To offer a method of developing controlled expression using an investigative technique.
- 2. Method—The interpretation of the subject is arrived at through trial sketches and teacher discussions with the student regarding me ms of "seeing" creatively. All sketches should be made proportionate in size to the finished painting. Small sketches are to be preferred because the student can view relationships more easily and is prevented from making detailed studies. Sketches which are developed into "miniature paintings" induce copying them when enlarged for the finished painting. The fresh, spontaneous effect so often seen in the sketch is lost through this copy technique. The value sketches, which are prepared as a basis for light and dark arrangement of color, should continue the search for good composition. The value sketch is made identical in size to the trial sketches done in line. Have the student cover the sketch with a single value to set the "key" to the arrangement. Each form is then freely brushed in with a value selected with regard to the "key" value. Using a brush to lay in the values, without previous pencilings, frees the student from the "draw and color in between the lines" technique. Mention should be made of the use of value to unify a composition, to create a mood or effect, and to stress or minimize an area.

After making a selection of the best value arrangement the color sketches can be approached using the same technique. Using a format of the same size as that employed for the value sketch, the student should wash on a key color. The value of the key color is derived from the value sketch. The color composition

is easier for the student to unify if the entire paper is covered with the key color. Discuss color harmony, distribution and design. Review the secondary characteristics of color and their relationship to the sketch. The student should be encouraged to try several solutions to the color sketch; for example, through the use of pure color, grayed color, mood, etc. The finished work may be carried out using one of the following:

- a. Compartmental color—in which the color remains closed within the separate shapes or volumes.
- b. Open color—in which the color patterns are arbitrary and line is required to define volume and shape.
- B. Techniques
- 1. Objectives—To acquaint the student with painting techniques that will offer new means for expression.



REFERENCE:

Gouache Painting, Arnold Blanche

MEDIA:

Drawing paper Tracing paper Illustration board Water color paper Opaque water color

NOTE:

While the development of the sketch is important, it should not be carried to the point where it takes the place of the finished work. It is possible to exhaust the interest of the stu dent in requiring too many preliminary sketches.



REFERENCES:

How to Use Creative
Perspective,
Ernest Watson, Reinhold
Pencil Pictures,
Theodore Kwitzky, Reinhold
Perspective for Artists,
Edward Laning,
Pitman Publishers

2. Method—Techniques offer the student inspiration to try new things. The teacher should make this area of experience vital through demonstration and visual material. Traditional methods of using water colors and gouache serve as a starting point with a gradual introduction to media used in various combinations. The student has had experience in this exploratory use of materials to portray representational objects. Show how much more exciting a painting can be when the artist employs a combined media to develop textural effects. The teacher may wish to incorporate problems with historical developments in painting. The impressionistic technique (broken color) is easy for introducing transparent water color and for experimenting with pure color. Combination of painted surfaces and collage with emphasis on textural effects abounds in cubist painting. Three-dimensional effects through warping of the picture plane, transparent effects through combinations of painted areas and colored gelatin, three-dimensional effects through relief and projected "light paintings" offer variety for those students whose interest is in painting in the future.

Drawing

I. AN EXPERIMENTAL APPROACH TO LINE

Objectives: Broad, free, direct use of line. Line used to articulate space.

II. LINE DRAWING AS A DIRECT METH-OD OF GRAPHIC EXPRESSION

Objective: Grasp of line as a means to creatively represent objects.

III. A CONCEPT OF FORM RELATED TO AREA

Objective: To develop an awareness of composition.

IV. THE ILLUSION OF THREE-DIMEN-SIONAL FORM AND SPACE ON FLAT SURFACE

Objective: To create convincing representations of space and three-dimensional forms on the pictured plane.

Objectives:

- To increase the student's powers of observation.
- The ability to represent three-dimensional objects on a flat surface.
- To develop control over line.
- To have the student observe line quality through his own exploration.
- To develop coordination of hand and eye and power of observation.
- To see texture as visual enrichment and as a means of expressing the surface characteristics of an object.
- To introduce the student to the use of media.
- To show the expressive power of line.
- To see relationships of form within a given area.
- To see design possibilities in realistic forms.
- To acquaint the student with basic principles of linear perspective.



- To acquaint the student with a means of creating a naturalistic space representation.
- To provide opportunity for developing an awareness of environment.
- To develop a self-critical attitude in the student.

Materials:

Tools	Media	Pape r
Brushes	Ink	Drawing paper
Pens	Lithocrayon	Tracing paper
Rulers	Wax crayons	Construction
Scissors	Hard & soft	paper
	pencils	Newsprint
	Chalk	-
	Charcoal	
	Water color	

Suggested Projects:

Free experimentation in making line.
Continuous line to fill space.
"Blind" contour drawing.
Continuous line contour drawing.
Quick sketching with unalterable media.



Rubbings of various surfaces with pencil or litho-

Composition of geometric shapes.

Still-life composition.

Running ink line and blown in ink.

Use photographs to study one and two point perspec-

Space representation - overlapping, placement, contrast, and relative size.

Outdoor sketching.

Landscape composition—realistic, perspective planes, two-dimensional patterns, abstract compositions.

Detailed drawings and rendering from actual observa-

Development of creative designs and compositions from the results.

Cartoons and caricatures.

Creative and interpretive renditions of still life, and landscapes whether realistic or abstract.

Study:

Cubist Painters-Braque, Picasso, Gleizes **Drawings of Old Masters** Works of Contemporary Artists

Cartoons and caricatures in magazines and newspapers

References:

Drawing, Daniel Mendalowitz; Holt, Rinehart, and Winston

Sketching with The Felt Tip Pen, Henry Pitz; Viking Perspective Made Easu, Ernest Norling: Macmillan How to Use Creative Perspective, Ernest Watson; Reinhold

Sketching Is Easy, Arthur Zeidenberg; Bell Pencil Pictures, Theodora Kautzky; Reinhold

Course in Pencil Sketching, I, II, III, Ernest Watson; Reinhold

Drawing the Line, James Ernst; Reinhold

Japanese Ink Painting, Ryakyu Asito; Charles E. Tuttle Co. (Tokyo)

Kaethe-Kollwitz Drawing, Herbert Bittner; Thomas Yoseloff

Drawing Lessons From the Great Masters, Robert Hale, Watson-Guptill

Pen, Pencil, and Brush, Harvey Weiss; Scholastic Book

150 Techniques in Art, Hans Meyers; Reinhold

Water Color Painting

Use:

Paint tubes or pans

Brushes-

Sable Flat Rigger Paint box Palette

Soft cloth and sponges

Round

Water containers



Red sable Pencils—soft, medium Nos. 4, 8, 12—pointed Easel ½", 1"---flat Drawing board Thumbtacks Paper All rag—Hand made Tape Mold made Razor blades 60, 72, 140, 200, 300 pound weights

Procedure:

Fasten paper to drawing board or wet paper and stretch it over a wooden frame, fastening it securely and paying attention to corners. Allow paper to dry. A preliminary line drawing is helpful for architectural subjects but the student should feel free to work directly with wet washes. Making many experiments with colors and textures to become familiar with a good water color effect.

The paper is important in creating the spackling effect that typifies water color painting. Rough textured papers should be used as well as smooth ones. A direct manner and a full brush are necessary to achieve the brilliance that is so important. Water colors should be applied at a darker or stronger intensity than oil paints because they dry lighter. This is particularly true when working outdoors on a bright, sunny day. Allow other colored areas to dry and then paint another color over the previously



painted wash. Tilting your board helps to produce a good graded wash. The razor blade can be used to scratch light lines through dark colors for some details. Much experimentation is necessary before a good result can be achieved.

Concepts:

The importance of experimentation and discovering color variations.

A knowledge of transparent and opaque techniques. Care of materials.

The quick wet technique as compared to the slower dry-brush method.

The importance of good composition and design.

References—Water Color:

Water Color (The Happy Medium), William Schimmel: Reinhold

Course in Wash Drawing, Leonard Brooks; Watson-Guptill

Watercolor Methods, Norman Kent

Painting the Southwest Landscape in Watercolor,
Pierce: Reinhold

Ted Kautzky (Master of Pencil and Watercolor), Charles Kinghan; Reinhold

Painting the Figure in Watercolor, Herb Olson; Reinhold

Ways with Watercolor, Ted Kautzky, Reinhold

References—Casein:

Casein Painting, Henry Gasser; Watson-Guptill
Techniques of Painting the Waterfront, Henry Gasser;
Reinhold

Painting

Since the days of the cave dweller, painting has served as an outstanding form of expression for the artist in representing the ideas and observations of the world about him. The artist used brushes, fingers, palette knife, brayers, sponges, on canvas, wood, metals, stone, or paper to represent and clarify his moods or feelings about subjects.

Materials:

Tools Brushes (nylon and bristle) Palette knives Oilcups Water pans	Media Tempera Oils Water colors Acrylics Caseins Temperas Enamels Varnishes Pastel chalks Inks Turpentine Linseed oil	Vehicles Papers Cardboard Masonite Wood Canvas
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Painting Experiences:

Landscapes	Murals
Still life	Abstractions
City scenes	Geometric designs
Seascapes	Optical illusions
Portraits	Illustrations

Concepts:

The skillful use of materials.

The individual style of the student.

An important message or mood of the painting.

Care and cleaning of brushes.

Need for an orderly palette.

Importance of seeing the total effect rather than the parts:

Objectives:

- An appreciation and understanding of painting from prehistoric times to the present.
- The ability to use a variety of media in new and imaginative ways.
- A more sensitive use of color.
- An increasing ability to see, feel, explore, and relate the world around through painting.

Materials:

Watercolors	Colored chalk
Oil	Acrylics
Tempera (powdered and	Oil crayons
moist)	Melted wax crayons
Casein	Various colored yarns
Ink	and glue

Suggested Activities:

The second of the second	Dusher or almain as
Finger and hand painting	Putty painting
Dry brush	Landscapes
Wet-on-brush	Interiors
Wet-on-dry	Seascapes
Crayon Resist	Cityscapes
Mural Painting	Chalk and powdered milk
Figure Compositions	Encaustic
Still-lifes	Blot and blow
Portraits	Palette knife painting
Sand painting	Abstract painting
Sponge painting	Geometric painting
Spatter painting	Painting to music
String painting	Painting sensations

Visit:

Museums, Galleries, and Studios



Free Hand Drawing





Objectives:

- To develop an awareness of composition.
- To develop an awareness of the formal qualities of nature.
- To regulate drawing with color, volume, and space.
- To regard color as a means of expression and enjoyment in art and daily life.
- To enable the student to correlate art experience and environment through landscape, figure and portrait painting.
- To further the appreciation of form and color through painting.
- To express an idea graphically,
- To develop power of observation.
- To develop perception of form to portray objects representationally.
- Learning a means of representing three-dimensional forms on two-dimensional surfaces.
- To develop an awareness of the formal qualities of nature.

References:

The Human Figure, David Rubens; Viking
Life Drawing, John Napper and Nicholas Mosely;
Studio

The Natural Way to Draw, Nicolaides, Houghton Drawing Lessons from The Great Masters, Robert Hale; Watson-Guptill

Drawing of the Masters: Italian, American, French, German, Spanish, Shorewood Pub.

I. UNDERSTANDING COLOR

To introduce the student to the physical, emotional and psychological aspects of color.

11. LIGHT AND SHADE

- 1. The illusion of volume.
- 2. Volume expressed through light and shade.
- 3. Distinction of planes through light and shade.
- 4. Emphasizing edges of planes.

III. FIGURE DRAWING AND PORTRAI-TURE

- 1. Variety of approaches. The student should continue to explore the construction of a figure to enable the student to "discover" a method with which he has success.
- 2. Figure study.
- 3. Figure composition.
- 4. Drawing the head.
- 5. Portrait.

IV. DEVELOPING A SKETCH

Materials:

Tools	Media	Paper
Brush	Water color	Drawing paper
Pens	Chalk	Tracing paper
Sticks	Ink	Newsprint
	Pencils	Illustration board
	Crayons	Poster paper

Oil Painting

Materials:

Sable

Tools

Easel
Palette
Palette knife
Oil cups
Paint rags
Paint rags
Stretcher frames
Brushes—
Nos. 2, 4, 6, 8
Flat bristle
Bright
Round
Filbert

Media
Oil paints
Turpentine
Linseed oil
Retouch varnish
Damar varnish

Vchicle

Canvas

Masonite





Procedure:

After selecting a suitable subject, a preliminary drawing may be transferred to the canvas. Oil paints are arranged on palette in warm and cool areas. The center of the palette is used for mixing. The undercoat is usually thinned out paint with turpentine added. Pay close attention to light and shadow areas. Large masses are painted first and smaller details are put in at the end of the painting.

The next coat of paint is put on heavier with less turpentine mixed with colors. As progress is made, the student realizes that the technique is secondary and that design or composition is most important. There is no perfect formula, therefore, an oil painting could be made with a palette knife. It can be glazed, rubbed out, over painted, scumbles, impasto, or broken colored areas can be applied. The final painting details can be applied with softer sable brushes and varnish is applied before framing.

Concepts:

The importance of careful planning.

Appropriate use of materials.

Selection of suitable subject.

Understanding of color mixing and color harmonies.

The knowledge of textural contrasts.

The arrangement of the composition.

References:

Tone and Colour in Landscupe Painting, Merlin Haines; Adam and Charles Black (London)

Learning to Paint in Oil, Jerry Farnsworth; Watson-Guptill

Painting Made Few John Mills Green Landscupe Painting Merling Made Few John Mills Green Landscupe Painting, Merlin Haines; Adam and Charles Black (London)

Learning to Paint in Oil, Jerry Farnsworth; Watson-Guptill

Review Landscupe Painting, Merlin La

Painting Made Easy, John Mills; Gramercy
The Art and Technique of Portrait Painting, Frederic
Taubes; Dodd, Mead, and Company
Painting Surf and Sea, Harry Ballinger; Watson-Guptill

Portrait Painting for Beginners, Oil Painting Step by Step, Abstract, John Pratlen; Watson-Guptill

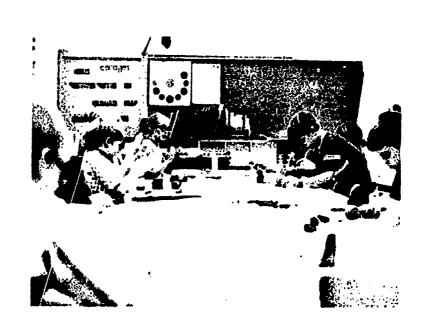
Art Understanding

One approach to art understanding might be developed through an introduction of historical art forms as they relate to the student's own expression. These works of art should be presented as they fit within the scope of the student's project rather than in historical or chronological order. Significant examples from various art traditions should be shown to exhibit the creativeness of man in expressing his environment. Broadening the student's understanding depends upon an awareness of social, political, and cultural forces as factors which determine art expression. It is also important for him to realize that changes in man's conception of these forces determine new art forms. A failure to recognize this often accounts for a lack of understanding beyond standards of the more "real" imitative of nature—the better.

The total should include examples of each major cultural period which produces a significant art form. To be in accord with the philosophy of the art guide, articles of daily living should be included with those of painting, architecture, and sculpture.

Aesthetic understanding of art is dependent upon an understanding of the plastic elements—line, color, value, texture, and form. Showing the student how these elements were used to express ideas and needs of other cultures can bring the combined experiences of appreciation and practice within his understanding.

In those situations where the teacher finds student interest directed toward acquiring more comprehensive knowledge of art history, a course should be offered to fill that need.





Evaluation

The following suggestions are offered to guide the teacher's evaluation of student progress, and the student's interpretation of the course in its entirety. The needs and reactions of each class will differ to the extent that no single method can be satisfactory for every group. However, these objectives may be accomplished through a summary using the following points as a framework:

- I. Has the student become aware of his capability for understanding and participating in art?
- 2. Has the student been made aware of the existing beauty in his everyday world? Has he also been made

to realize that his environment can be improved (architecture, housing, city-planning, freeways, etc.)?

- 3. Has the student been made to feel that art should be part of daily living?
- 4. Has the student developed an ability to evaluate good design in a practical functional sense so as to enable him to choose wisely the commercially made necessities?
- 5. Has the student developed an understanding that art, in its historic past as in the present, is an expression of the culture and is valueless if isolated from human need and development?

Art History

Objectives:

- Enrichment of the student's understanding of art in the environment.
- A knowledge of the different ways in which people have expressed themselves through art.
- An understanding of how today's art relates to the art of the past.
- The realization that there are qualities common to all great art.

Visual Resources:

Art history books
Films
Film strips
Color slides
Artifacts

Reproductions of
paintings, sculpture,
and prints
Original works of art
Periodicals and magazines

Study and Discuss:

Main trends in the history of painting and sculpture. Contemporary painting and sculpture. Work of local artists.

Visit:

Galleries Print shops Theatrical
Museums Public productions
Current buildings Local
exhibits Art fairs monuments

Activities for Students:

Research and oral reports.
Arranging exhibits and bulletin boards.
Notebooks and scrapbooks.
Correlation with daily work.

Suggested Research and Studies:

Study of the unique achievement of Michelangelo in relationship to the human figure.

Study of the precise draftsmanship of Ingres.

Study of the spirited style of Delacroix. Study of the emotional distortion of El Greco. Study of the fantasy drawings of Klee.

Study of the commentary of Toulouse-Lautrec.

Study of the line drawings of Picasso and Matisse.

References:

Painting and Reality, Gilson: Meridian
Arts and the Man, Irwin Edman; Norton, Inc.
Problems of Art, Suzanne Langer; Scribner
Conversations with Artist, Rodman: Capricorn Books
Sight and Insight, Alexander Eliot; Dutton
Western Civilization, Walther Kirchner; Barnes and
Noble, Inc.

Creativity in the Arts, Vincent Thomas; Prentice Hall, Inc.

The Necessity of Art, Ernst Fischer; Pelican
The Shape and Content, Ben Shawn; Vintage
Form and Function, Horatio Greenough; University of
California

Notes of a Young Painter, Hiram Williams; Spectrum The Search for Meaning, Alfred Neumeyer; Spectrum Painting: Some Basic Principles, Frederick Gore; Reinhold

The Philosophy of Modern Art, Herbert Read; Meridian

Analytic of the Beautiful, Kant; Bobbs, Merrill Aspects of Form, Herbert Read; Indiana University Reason in Art, George Santayana; Collier Books The Meaning of Art, Herbert Read; Pelican Painting in the Twentieth Century, Werner Haftmann; Praceder

The Art of the Renaissance, Peter and Linda Murray; Praeger

A Concise History of Painting, Michael Levey: Praeger



The Pocket Dictionary of Art Terms, Reginald G. Hagger; Hawthorne

Dictionary of American Artist, Paul Cummings; Martins

Art and Civilization, Bernard Meyers; McGraw-Hill A New World History of Art, Sheldon Chevey; Viking Art Through the Ages, Gardner; Crosby Encyclopedia of Painting, Bernard S. Meyers; Crown Publishers, Inc.

History of Art, H. W. Janson; Abrahams

The Picture History of Painting, Janson; Abrahams

The Ilorizon Book of the Renaissance; American Heritage Pub.

Lettering

Objectives:

- To develop skill, to learn a basic alphabet and to meet the student's need.
- An understanding of the meaning of communication and its historical development.
- An awareness of the importance of spacing and precision in lettering.
- The ability to make an alphabet.
- An awareness of the differences in letters made with the pen, brush, and chisel.

Methods:

Simple alphabets.

Variations on this alphabet by making changes in width and height of letters.

Designing an alphabet.

Using a brush and/or a pen and ink.

Media:

Paper Pen holder and various nibs
Ruler (Speedball B and C)
India ink Cut paper

Pencil Speedball lettering charts

Lettering brush Poster paint

Suggested Projects:

Posters Allover designs using Poster layouts letters Travel poster Letterheads Lettering for bulletin Folio covers Magazine layouts boards and displays Directional signs for Lettering words, titles, corridors sentences, paragraphs in various styles of pen Monograms Three-dimensional signs Package design Record album cover Illustration Trademarks, insignias, Cartooning Labels motifs Coats of arms Brochures Story boards Newspaper drawing Book jackets Spot drawings Booklet illustration Swimming pool advertise-Stage or musical poster ment Television commercials Soft drink advertisement

Collect:

Commercials

Samples of Gothic, Roman, Manuscript, Chancery, and other styles of alphabet cut from magazines and newspapers including contemporary lettering.

Industrial products and

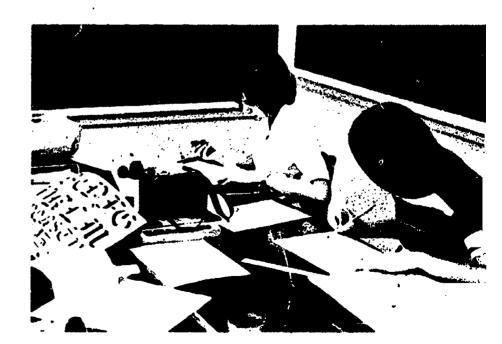
their design

Techniques:

- 1. Practice the formation, proportion, balance, and spacing of letters.
- 2. Demonstrate optical spacing and balance of words.
- 3. Show the formation of the letters in a basic alphabet by the elements they have in common.
- 4. Show basic strokes—vertical, horizontal, diagonal, and curved.
- 5. Transferring lettering from a layout to the final work.
- 6. Student should explore the possibilities of various medias to create special lettering effect.
- 7. Point out relationship of lettering style to the message it conveys. Learning to think of lettering as an integral part of the layout should include style, color, and legibility.

Commercial Art Obligations:

Meeting the standards for reproduction. Meeting of deadlines





Commercial Assignments

Commercial art often requires working to satisfy the tastes and the whims of someone else, frequently someone who has no art experience. This could be a unique experience for the student. Many will not like this replacement of his will; others will fail to grasp the necessity of meeting a deadline-but many will find these commercial assignments rewarding. Recommended for a selected group in II, III, and IV year art students.

Materials:

Tools Pencils Pens and inks **Brushes** Air brush Triangles Mat knife Scissors Silk screening equipment Drawing board

BEST COPY AVAILABLE Media Paper

Illustration board Water color paper Pastel paper Coquille paper Tempera Caseins **Pastels**

Masking tape Rubber cement Construction paper

Lettering and Layout Design

Concepts:

Importance of satire, impact, and cartoons Advertising attracting public response Knowledge of lettering forms Appropriate selection Use of spatial relationships **Dummy** construction Rough Layout Finished layout for any advertisement Beauty of design Working for reproduction

- a. Line cut process
- b. Half-tone process
- c. Color process and breakdown

Stress

Skill and use of tools Composition Harmonies of line, form, texture value and color Individuality of expression Importance of simplicity Artist's relationship to merc1 ndise and product

References:

Posters, Howard Boughner; Pitman The Book of Signs, Rudolf Koch; Dover The History and Technique of Lettering, Alexander Nesbitt: Dover



Speedball Textbook, Ross F. George; C. Howard Hunt Lettering, Higgings; Ink, Inc. Techniques, Higgings; Ink, Inc. Art Today, Faulkher, Ziegfeld: Hill Lettering, Harry E. Wright; Pitman Pub. Corp. Lettering-Art in Modern Use, Raymond Ballinger; Reinhold Layout, Raymond Ballinger; Reinhold

Signatures and Trademarks, Rand Holub; Watson-Guptill

Lettering, John Cataldo: Davis

Interior Design

Objectives:

- An understanding that it is necessary to know the rules for beauty and how to use them in order to have an attractive home.
- An increasing ability to plan and coordinate furniture, equipment, drapery and chair covering patterns, floor and wall covering in a room.
- The development of intelligent home planning and consumer buying

Suggested Projects:

Floor plans Color schemes and harmonies Furniture arrangements Picture hanging

Collect:

Pictures of wall arrangements, furniture, garden arrangements, houses, pieces of wallpaper, and any



other material which can be discussed and criticized for art quality.

Design:

Your own room as you would like it.

Print material for draperies, pillows, or upholstery.

Weave place mats, rugs, or table runners.

Wallpaper for your own room.

Make a scale model of a one-room studio apartment. An interior decorator's studio

Visit:

An interior decorator's studio Local furniture stores Museums

References:

Guide to Interior Decorating, Betty Pepis; Reinhold Designs for Living, Ford and Creighton; Reinhold

Fashion Drawing:

Current and future fashions

Drawing from Memory:

Summer experiences School and social activities

Nature Drawing:

Observing designs and paterns of nature in objects such as cones, sea shells, flowers, leaves.

Contour Drawing:

Figure, still life, etc.

Cartooning:

Sports
Spot
Editorial or political
Strip

Perspective Drawing:

Parallel
Angular
Three point perspective
Ellipses

Abstract, Geometric, Free Form Design:

Figures and still life Accidental shapes for inspiration

Clusters or Grouping:

Figures
Homes and additions

Design



Objectives:

- To develop perception and imagination through varied experiences.
- To acquaint the student with volume.
- To develop specialized skills and techniques based on the student's knowledge of design fundamentals.
- To develop a creative attitude toward the use of materials and techniques in solving problems of design.
- To broaden his attitudes, knowledge, and skills in relationship to other areas where design is essentially important.



Concepts:

Make the student aware of his design as it exists in nature and man-made objects.

Two-dimensional designs.

Three-dimensional designs.

Stress:

- 1. A design as it relates to two-dimensional pattern and surface enrichment.
- 2. A design as it relates to three-dimensional objects in space.
- 3. Relationship of elements to each other. Tension, movement, and spatial interpretation develop as elements are related to each other and to the picture-pane.
- 4. A student should be aware of design as it exists in nature and man-made objects.
- 5. Some writing forms suggest linear motifs: Calligraphy, pictographs, and hieroglyphics.
- 6. Geometric shapes and solids used to develop abstract and non-objective marifs.
- 7. Achieve visual interest.
- a. Positive-negative reversal of values.
- b. Shifted image superimposed on a color shape.
- c. Transparency of superimposed shapes.
- d. Pluralism—one contour line common to several shapes.
- e. Fluctuating image—observer's attention alternates between figure and background.
- 8. Characteristic of volumes,

Suggested Projects:

Geometric Design-

Lines, circles, rectangles, triangles Imaginative designs from memoryAbstraction, scribbles which lead to exploration and discovery

Studies from nature—

Organic

Inorganie

Figurative designs—

Animals

Groups

Design from other cultures—

Africa, China, Mexico, Italy, etc.

Useful designs-

Industrial design, fashion, interior, commercial design, package, etc.

Graphic design-

Posters, signs, trademarks, symbols, greeting cards, book covers, wrapping paper, stencils, silk screen, block prints, repeat designs, border designs, textiles.

References:

Design for You, Beitler-Lockhard; Wiley and Sons Basic Design, Kenneth Bates; World Company

Nature as Designer, Bager; Reinhold

Design in Three, Randall and Haines; Davis

Craft Design, Mosley, Johnson, Koening; Wadsworth Publishing Co.

Vision in Motion, Moholy; Nagy

Design, Sybil Emerson

Primer of Visual Art, Mundt

Thoughts on Design, Paul Rand

Crafts Design, Mosley, Johnson, Koening; Wadsworth Publishing Co.

Designs for Artists and Craftsmen, Louis Wolchonok; Dover

The Art of Three-Dimensional Design, Louis Wolchonok; Harper Publishers

Mural Design



In ...

Methods:

Various techniques of mural making such as wall paintings, fresco, reliefs, friezes, etc.

- 1. Working together and exchanging ideas.
- 2. Need for careful planning and research.
- 3. Care of and understanding of materials.
- 4. Knowledge of great mural painters from Mexico, Italy, France, etc.
- 5. Knowledge of projecting techniques.

Suggested Projects:

Murals of historic significance. (Civil War, etc.) Murals of scientific significance. (Biology, Space.)

Murals of aesthetic significance. (Abstracts, Stylization.)

Murals of literary significance. (Shakespeare, Stories.)

Circus Humor Sea Satire



Travel
Transportation
Fantasy
Inventions
Family of Man

Medicine Music Sports Education

Materials:

Tools
Brushes
Scissors

Media
Paints
Charcoal
Pencil
Glue
Tile
Glass
Fabric

Wood panel Brown Kraft paper White butcher paper Construction paper

Procedure:

This project is usually the work of many students, but it can be also a good long-range assignment for an individual. Selecting an appropriate topic is often of utmost importance. Before any sketches are made, careful research should be done. Ideas, inspired from many sources, may be written up. A great deal of correlation with other subjects usually takes place. Many preliminary studies, sketches, and color schemes are made before one is selected. A large, simple contour drawing or cartoon is made to actual size. The drawing is then transferred to the working surface. Tempera paints are usually used on paper murals and oil paints, enamels, fabrics, colored papers, and other materials used on more permanent surface. Large flat areas of texture and line may be added later. The mural must be viewed from a distance while working to see that all parts are harmoniously related.

References:

Bulletin Boards and Display, 1961, Randall and Haines; Davis Press, Worcester

Murals for Schools, Arne Randall; Davis Press, Worcester

Collage

Media:

Colored papers Chalk Newspaper Pencil

Magazines Corrugated cardboard

Yarn Fabric
Wire Copper
String Sandpaper
Cork Wood
Plaster Paste
Ink Scissors

Paints

Method:

Select a variety of interesting materials, some new, others old, rusty, burned, or discarded objects. Select the materials that are especially exciting for each individual. Look for color harmony, textural contrasts, unusual shapes, and a variety of values. Begin by cutting, tearing, and arranging materials on a heavy cardboard backing. When the arrangement seems satisfactory, the various pieces can be glued to the backing. The design should have a center of interest, a mood, or suggest a message. The design can be enhanced by painting out certain areas or adding photographs, letters, or other objects to the arrangement. The student may draw over parts of the collage or glaze sections of it and should use his imagination and ingenuity to arrive at a highly individual result.

Concepts:

Art exists all around us in many forms.

Selections of appropriate material to create their own designs.

Variety plays a major role in design.

Line, color, texture, form, and values.

Harmany, proportion, contrast, rhythm, dominance, and balance.

Common materials can be made into works of art.

References:

Collages, John Lynch; Viking Press.

Collages, Harriet Janis and Rudi Blash; Chilton Company.

Collages and Constructions, Lois Lord; David Fublishers.

Collages, Francis Brow; Pitman.

Objectives:

- An awareness of the history of collage and its current revival.
- The ability to assemble varied materials with the limitations of good taste.
- The understanding that art can be made from "found objects."

Materials:

ToolsMediaScissorsPhotographsRazor bladesButtonsStraight pinsCloth

Cloth Feathers Plastic Wood Paint

Yarn and string Cardboard scraps Rubber cement

Paper Labels Tickets



Suggested Projects:

Book jackets

Record album covers

Posters

Collages combining different textures and media

Study and Discuss:

Collages of Braque and Picasso

Dadaists

Esteban Vicente

John Lynch

Matisse

Marca-Relli

Visit:

Museums and galleries to see examples of collages.

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Fold and Dye

Objective:

• Study of the methods of folding and dipping

papers. Media:

Paper, newsprint, tissue, paper towels

Color media-water color, thinned tempera, colored

Brushes

Containers for paints

Suggested Projects:

Wrapping papers

Book covers

Portfolio covers

Stationery

Decorated Papers

Objectives:

• Understanding of various materials for printing.

• Various techniques for cutting and the mechanics of repeat patterns.

Materials:

Tools

Media

Vehicle

Knives

Poster paint Watercolor

Ink or dyc

Paper—all kinds

Razor blades Braver

Brayer Sponges

Spools

Wood block

Artgum

Vegetables

Pans

Suggested Projects:

Book cover designs

All over design

Greeting cards

Decorated wrapping paper

Paper

Emphasis:

To encourage an appreciation of the history of paper and its wide commercial uses. To stimulate an interest in the versatility of paper as an expressive art medium and to gain experience in the manipulation and use of the material.

Suggested Projects:

Decorated paper Fold and dye Paper sculpture Papier maché Stenciling Collage Batik Tie dyeing

ecorated paper Stencili old and dye Collage

Wax resist

References:

Crafts, Design, Mosley, Johnson, Koenig

Design in Three-Dimensions, Randall and Haines

Arts and Crafts, Wankelman, Richards, Wigg

Teachers Craft Manual, Bryce and Green

Cut Paper Work, Christabel Russell Cox

Paper Sculpture, Arthur Sadler

Paper Folding, William Murray, Francis J. Ridgwey

Paper Sculptures, Mary Grace Johnston

Adventures with Scissors, Edith Becker; International

Textbook Company

Exploring Papier Maché, Victoria Bedford Betts; Davis

Publishing Co.

Creativ · Paper Design, Rottger; Reinhold



Two-Dimensional Art

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Drawing:

Good drawing is one of the artist's basic tools. It is the result of keen observation and ability developed through practice in representing that which is seen or felt. The artist expresses, intensifies, or clarifies through the use of fundamental elements of art (line, texture, and form). The artist may at times draw to represent factual characteristics and details or conversely may develop the abstract and the emotional.

Media:

Pencils—Colored, charcoal, hard and soft lead

Pens-Ballpoint, croquil, speedball

Charcoal

Crayons — Wolfe crayon, lithograph crayon, Conté

Brushes-Watercolor, Japanese, stencil, bristle, letter-

ing

Magic markers

Pastels

Variety of papers

Drawing Experiences and Drawing from Observation:

Simple inanimate object

Group of objects

Models-

Standing figure

Studies

Action drawings

Seated (foreshortening)

Likenesses

Heads

Hands

Materials:

Tools
Brushes
Pens
Silk screen

Media Paper

Inks
String
Textiles

Paints Crayons Pencils

Wire Charcoal Clay

Glass

Block printing Wood

Pastel Plaster Stencils

Procedure:

Limit the problem. Have students use one element to form a design rather than to try to include many. For



example, the rectangle may be the simple element to be used. Much experimentation will follow as to sizes, shape, movement, balance, and composition. When a successful arrangement is attained, another element such as color or texture may be added. Addition or subtraction of elements can be included. This process can continue until a most complete use of all elements is achieved.

Stress:

The organization of the basic elements (line, form, texture, value, and color) into a pleasing arrangement. The understanding of the elements of composition (harmony, rhythm, proportion, dominances, contrast, balance, unity, and order).

Methods:

Repeat patterns
Accents
Transparency, reflections
Overlapping
Contrasts
Distortion, stylization,
exaggeration

Balance, formal, informal arrangement Limitation of color schemes Movements of line Alteration Limitation of size, shape



Stenciling

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Objectives:

- To understand relationships of stenciling to the industry of textile designing.
- To gain knowledge about one of the more common methods of duplicating.
- To explore the possibilities of stenciling (using both positive and negative methods.)
- To enhance fabric for some functional purpose.



Materials:

Stencil paper
Stencil knives
Inks or paint (water/oil)
Fabric
Thumb tacks
Extender
Cardboard

Spray gun
Textile paints
Heavy paper
Glue
Thinner
Tempera
Backing for attaching
fabric

Concepts:

Color study—effect of mixtures, shading, etc.

Planning design (simplicity)

Amount of paint to be used—for brush—for spraying Cutting steneils

Cleaning (brushes, stencils, etc.)

Finishing—heat application on fabrics to make paint permanent.

Suggested Projects:

Fabrics— Greeting cards
Wall hangings Wrapping paper
Place mats Stationery
Table cloths Book covers
Skirts Borders—frames—
Scarves mirrors, etc.
Runners

Objectives:

- Printing by using stencils can be used to emphasize the principals of good design and composition.
- Enables students to appreciate the techniques employed and to gain skill in using them.

Method:

The design is cut from any heavy paper and glued lightly on the side of the silk that will be next to the paper. If you use a washable paint, the screen and frame can be used over and over for many different stencils. A frame made from an embroidery hoop and organdy can be used.

Cut a rectangle of any heavy cardboard the same width as your silk to use as a "squeegee." Tempera, poster or any other kind of paint should be placed at one end of the frame. The paint should be of heavy cream consistency. With the cardboard pull the paint smoothly and slowly over the silk. Lift the frame and clean the silk.

Tempera Batik

Objectives:

Stencil brushes

- The importance of careful planning to produce successful results.
- The importance of contrast in value, texture, color, size, and forms.
- Allow for unexpected results and use them advantageously,

Materials:

Tools Media
Brushes Tempera
Large tray Paper
Ink

Method:

Select an interesting subject—landscape, figures, animals, abstract, etc.

The important differences between the batik method and a regular tempera painting is that the black ink is painted over the finished tempera painting and then submerged under water. The result will create a fascinating textural effect and a very spontaneous result.

It is good planning not to cover all the white paper with paint, but to leave spaces around the colored areas. Emphasize the use of bright or light colors in contrast with the black ink. The ink will adhere to the unpainted areas but will wash off the colored ones. Wait until the ink is dry before submerging the paper in water so that the colors will remain intense and will not wash out. Some touching up can be done with pen and ink or brush and paint, if necessary,



Batik

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Objectives:

- An understanding of the batik process and the ability to decorate a fabric using it.
- A knowledge of the origin of batik and the strong influence it has had on textile design.
- An increasing ability to make use of the fluid nature of the design possible with this technique.

Materials:

Tools
Brushes
Hot plate
Sketching frame
Granite pans
Wooden spoon

Media
Beeswax
Paraffin
Tjan-tung
Newspaper
Cold water dye
Fabric

Ironing board

Muslin Silk pongee Cotton batiste Handkerchief linen

Study and Discuss:

Japanese method of batik

Suggested Projects:

Table mats
Tray cloths
Wall hangings in combination with a block print
Book covers
Head scarfs
Ties

References:

Introducing Batik, Evelyn Samuel; Watson-Guptill Creative Textile Design, Rolf Hartung; Reinhold More Creative Textile Design, Rolf Hartung; Reinhold Design on Fabrics, Meda Johnston, Glen Kaufman; Reinhold

Batik: Art and Craft, Nik Krevitsky; Reinhold Textile Printing and Dyeing, Nora Proud; Reinhold Fabric Printing by Hand, Stephen Russ; Watson-Guptill

Tie-Dyeing

Objectives:

- The ability to hand-decorate a fabric using this technique.
- An appreciation for good craftsmanship.

Experiment with:

The three varieties of tie-dye pattern-

Rosette Broad stripe Fine repeat

Materials:

Tools
Wooden stirring stick
Hot plate

¢

Glass container for dyeing

Several weights of thread,

twine and cord Boilable dyc Fabric

Silk, silk chiffon, georgette, percale, muslin, handkerchief linen, batiste, soft viscose rayon

Suggested Projects:

Dress material
Luncheon cloths
Wall hangings
Tie-dyeing with a print
Tie-dyeing with a drawing (magic marker)

Wax and Resist Processes

(Tie-dyeing and Batik)

Objectives:

- To gain understanding and appreciation of color and design in hand-dyed fabrics.
- To learn to enhance fabric by the use of dyeing and to learn about this art which was developed in India in ancient times.
- To approximate in the classroom the Japanese method of Batik.
- To study the history of fabric dyeing from the time of the Egyptians to the present.



Materials:

Tools Media

Frame Lightweight fabric

Iron Beeswax Hot plate Paraffin

Container for wax Japanese brushes

Dye container String Dyes

Concepts:

How to make a planned or unplanned design Effect of colors on each other when being dyed

Safety factors (hot wax)

BEST COPY AVAILABLE Experiments—Batik sample Tie-dyeing sample

Suggested Projects:

Dyed material for

Skirts Blouses Scarfs

Handkerchiefs

Runners Wall hangings

Combination of Batik and block print

Wax Resist

Objective:

• A study of color and design techniques and characteristics and reactions of wax with water.

Materials:

Tools **Brushes**

Media

Crayons Paraffin Beeswax

Liquid floor wax Water color paint Thinned poster paint Suggested Projects:

All over designs Landscapes Still life Human figure

Block Printing

Objectives:

• Various methods of printing.

• Realization that many results may be derived from one design.

• Commercial printing processes.

Materials:

Tools

Media

Cutting tools Brayer

Linoleum roll Linoleum blocks Printing inks

Water soluble, oil base

Papers Cloth

Plaster blocks

Method:

Make preliminary designs on paper. The free-brush technique is very good. Design factors involved in creating repeat motifs, all over patterns, geometric designs, non-objective designs, border designs, etc., should be stressed. Design is then transferred from paper to linoleum by tracing technique. Design must be reversed so that it will not print backwards which is especially important to a design with lettering. The design is then carefully cut out with different entting tools to create a variety of lines, textures, and shapes. The need for safety in cutting must be emphasized.



Additional blocks may be used when more than one color is desired. Care should be taken in applying the ink with the braver so that the proper amount is achieved to prevent bare spots or too much ink from filling in small lines of the design. Colored papers can be used for interesting effect. Overlapping areas of the design may produce unusual effects. The emphasis throughout should be placed upon the development of the student's personal expression and the quality of the independent thinking used in solving design problems and techniques.



Printmaking



Materials:

Wood Cut Prints—Wood (pine, redwood), cutting tools, printing equipment, paper, inks.

Silk Screen Prints—Frames, screen of organdy or silk, silk screen inks, film, adhering solution, stencil knife, tusche, tape, shellae, lacquer, thinner, squeegees, Le-Page glue, brushes, cotton, cloth or paper to print on.

Plaster Block Prints—Plaster of Paris, vaseline, shellac, molding box, printing inks. container for pouring the plaster and water mixture, sharp tool, brayer, palette, paper, and printing inks.

Acetate Prints—Sheet of acetate, sharp tool, brayer, ink, palette, cleaning cloth, paper to print on.

Eraser and Rubber Tubing Prints—Erasers, strips of

Eraser and Rubber Tubing Prints—Erasers, strips of rubber tubing, standard printing equipment and wood blocks, glue.

Suggested Projects:

Wrapping paper Greeting cards Posters

Lining paper for book-binding

Textile designs (border and all over patterns)

Wallpaper designs

Book covers

Book plates

Fine art prints

Visit:

Galleries, studios, and print shops

See how colors are separated and color plates are made

Collect:

Samples of various methods of printing such as etching, lithography, and monoprinting.

Relief Printing

Objectives:

- To explore the possibilities of relief printing and to acquire knowledge of the tools and techniques involved.
- To learn that from this method many copies can be made of one print.
- To develop ideas into designs by planning so that they become meaningful statements.

Materials:

Tools Media Linoleum Lino cutters Wood Cardboard Wood cutting Vegetables tools Gluo String Rubber Brayers Plaster Wax Palette (glass) Printing press Inks (water or oil)

Paints (water or oil)

Concepts:

Experiments—

Glue on glass

String on wood

Rubber

Cardboard

Plaster (incised)

Use of tools for cutting (safety factors)

Difference between positive and negative cuts

Application of ink (amount)

Pressure in printing

Cleaning process

Effectiveness of design for printing process used.

Suggested Projects:

Fine art prints
Portraits
Landscapes
Still lifes
Monograms

Greeting cards Book covers Wrapping paper Wall hangings Book plates



Printmaking



Objectives:

- A knowledge of, and experience with, planographic, relief, and intaglio methods of printing.
- An awareness of the enhancing qualities of pattern in nature and man-made objects.
- A greater ability to appreciate commercial processes and the works of the graphic artist.

Suggested Techniques:

Steneiling—Steneil paper, seissors, steneil knife, steneil brushes, water or textile paints, turpentine, paper or cloth, palette for mixing.

Monoprints—Inks, glass plate, paper (plain or colored), cloths for wiping.

Wax Prints—Wax (candle ends, wax crayons, paraffin), sharp tool for incising on wax, cardboard box for wax, brayer, ink. palette, and paper.

Cardboard Prints—Cardboard, scissors, printing paper, shellac, brushes, ink (block printing), cleaning fluid, cheesecloth.

Leaf Prints—Carbon paper, newsprint and colored papers, all types of leaves, pine needles, ferns, grasses, etc., iron (electric).

Vegetable and Gadget Prints—Miscellaneous household gadgets, potatoes, squash, and other vegetables, printing ink or tempera colors, sharp tool, brushes, paper.

Clay Print — Modeling clay, pointed stick, rubber brayer or paint pad, inks, newspapers.

Linoleum Block Prints-Block printing inks, linoleum blocks, brayer, palette, linoleum cutting tools, press,

Experimental Printing

Objectives:

- To explore objects and their ability to leave an impression.
- To see everyday objects in a new way—as useful materials and tools to produce art forms.
- To realize that many experimental prints will be unique by the very nature of the process involved.
- To explore the varied processes and procedures involved in printmaking.

Materials:

Tools	Media	
Palette (glass)	Leaves	Grasses
Brayers	Bark	Stones
Printing press	Pennies	Scrap cloth
optional	Scrap yarns	String
•	Sponge	Straw
	Inks (water or oil)	Cardboard

Emphasis:

Experiments—

Object prints using hands, fingers, etc.

To use man-made objects such as string, yarn, sponges, crasers, etc.

To use objects from nature such as grasses, twigs, leaves, etc.

Have each person make a monoprint.

Explore as many different methods as possible.

Amount of ink. Amount of pressure.

Suggested Projects:

Monoprints

Repeat patterns for wrapping paper and book covers

Fine art prints Textile prints Book marks

Monoprint

Objective:

• An original printing process that allows a good study of pictorial composition.

Media:

Artist's oil paints Printer's ink Tempera Print block (glass, metal, or masonite)

Turpentine for thinning Soft printing paper

Method

The design is painted on a piece of glass and the print is transferred to the paper. The original painting, however, is not destroyed.



Etching or Intaglio

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Objectives:

- To explore the possibilities of etching.
- To acquire skill in the techniques involved.
- Planning good composition.

Materials:

Tools
Hand tools

Media

Rags Glass trays Printing press Copper plate Ink

Paper Silver point Acids

Method:

An image is cut into a place with hand tools and acids. Ink is spread onto the plate so that it fills the lines etched below the surface. It is then wiped off the surface.

Place dampened paper on the copper plate and then run both plate and paper through a press that has rollers. The press pressure forces the damp paper into the etched lines thus soaking up the ink.

Intaglio Printing

Objectives:

- The relation of color harmonies.
- Importance of direction of movement.
- Use of variety.
- Effectiveness of transparency in achieving an aura of mystery.

Materials:

Tools

Media

Brushes Knives Crayons Acrylic paints Papers
Oak tag
Light board
Hard finish

Method:

Apply successive layers of crayon working from light to dark and crossing in different directions. Rubbing with tissue and engraving with a sharp instrument will produce line, texture, and pattern. A finish can be achieved by using a solution of diluted acrylic paints. This solution flows into the etched areas creating accents. Wherever the paint is applied over the crayon, it produces an illusion of transparency.

Lithography

Objectives:

- A study in the history of lithography.
- A good study of design.
- Emphasis of line importance in a composition.

Media:

Wax lithograph crayon (tusche) Heavy slap of porous stone Water Ink Lithograph press

Method

A lithographer uses a special wax, lithograph erayon, or liquid called tusche. He draws his design on a heavy slab of porous stone and the wax actually fills in the pores of the stone. When the entire surface is wiped with water, the non-waxed areas absorb the water. Then the ink adheres only to the pores that have the wax drawing. Printing is accomplished with a very heavy, specially designed lithograph press.

Graphic Arts

Printing Processes:

Printing paper

Relief—wood, linoleum, cardboard, plaster Intaglio—engraving, etching, lithography, dry point, cello-prints

Surface—silk screen, stencil, monoprint Mixed processes—experimental

Concepts:

Use and appreciation of techniques including the principles of good composition.

Suggested Activities:

Illustrative prints as nature works of art on a level with other art forms.



Illustrative material-books for Children's Hospital, school, and community activities.

A unit or repeat design for use on cards, cloth, wrapping papers.

Background and Appreciation:

Consideration of techniques and styles of great prints as mentioned in group discussion with greater emphasis on the more mature application of these skills to classroom projects.

Historic Durer Eli Wallach Hokusai

Modern Helen Hasel Ruth Reeves Eli Wallach Frascon Baskin

Surface Daumier George Bellows Renault

Toulouse-Lautrec

Intaglio Rembrandt John Taylor Arms Whistler

Wall hangings

Gova Blake Mayeter

Silk Screen Printing

Objectives:

• To become familiar with the history of silk screen printing.

• To gain knowledge and understanding of the equipment and materials used for this process of printing.

• To become associated with the versatility of silk screening and its wide use commercially.

 To apply this knowledge to make useful as well as decorative projects.

Materials:

Frames

Tools Media

Organdy or silk Adhering liquid

Cloth

Film cutters Squeegees

Inks (oil or water) Tape (masking) Film Lacquer Thinner Wax crayons Glue Squeegees Sponge Paper

Concepts:

Suitable design

How to transfer designs

How to cut film

Setting up a frame (stretching material, etc.)

Adhering film to screen

Preparation of paper or fabric to be printed on

Printing (more than one color)

Cleaning

Experiments—

Glue and tusche

Wax crayons

Paper (torn) (adhering other subjects to screen)

Suggested Projects:

Fine art prints Stationery

Textiles

Book plates Insignia Posters

lishers

References:

Greeting cards

Emblems

Silk Screen Print Making, Harry Shokler; Tudor Pub-

Signs

Screen Process Printing, Will Clemence; Blandford Press

Silk Screen Techniques, T. I. Biegeleisen and Max Coln: Dover Publishers

Exploring the Graphic Arts, C. Van Norston Co.

From Oil Stencils to Silk Screen, Jessie Stephens; Charles Scribner's Sons

Printmaking Today, Jules Heller; Henry Holt and Co.

Printing

New Creative Printmaking, Peter Green: Watson-Guptill

Crafts Design, Mosley, Johnson, Koenig; Wadsworth **Publishers**

Arts and Crafts, Wankelman, Richards, and Wigg: William C. Brown

Teachers Craft Manual, Mayo J. Bruce; Feardon Publishers, San Francisco

Printmaking, Donna Z. Meilach; Pitman Publishers

Fabric Printing by Hand, Stephen Russ; Watson-Guptill

Block Printing on Textiles, Janet Erickson; Watson-Guptill

Printmaking Today, Juleo Heller; Holt and Company

Etching

The Technique of Etching and Engraving, John Brunsdon: Reinhold

Lithography

The Technique of Lithography, Peter Weaver; Reinhold



Mobiles

Objectives:

- To learn about a new art form and its relationship to sculpture.
- To further the understanding of three-dimensional design.
- To study the effects of space and light as an integral part of a design.
- To use this information and relate it to balance, form, and color.
- Exploration and experimentation with a design that moves in space.
- Development of an organized design that is attractive in all positions.
- An appreciation of the craftsmanship involved in the making of mobiles.

Materials:

Tools	Med	lia
Knives Metal shears Scissors Mat knife Brushes Pliers	Paint (tempera, acrylic) Thread (nylon or mobile wire) Plastic Paint (oil or water) Papier Maché 12-18 gauge wire Liquid solder Nylon thread Glue Magazines Paper (construction, tissue, news, etc.)	Yarn Turpentine

Concepts:

Understanding of balance (various kinds).

Understanding ways of construction.

Planning mobile according to location for balancing. Proper use of tools.

Relationship of balance, form, color, to space and light.



Suggested Projects:

Mobiles using-

Geometric forms

Free forms

Fish

Animals

Mobiles with simple abstract cardboard or balsa wood shapes.

More complex mobiles of metal, glass and/or plastic using a definite theme.

A mobile of shapes within shapes.

Complete abstract constructions.

Interpretations in mobile form.

Study and Discuss:

Work of Alexander Calder

Displau:

The mobiles around your school.

References:

How to Make Mobiles, John Lynch; Viking Press Making Mobiles, Anne and Christopher Mooney; Watson-Guptill

Paper Sculpture

Objectives:

- An awareness of paper and its potential.
- Experience with and exploration of paper's many possibilities.
- Excellent medium to study light and shade.
- Also the relationship of plane and form can be achieved rapidly.

Materials:

Tools
Scissors
Razor blades
Rulers

Stapler Punch Compass Media

Various papers and textures

Tape Erasers

Rubber cement



References:

Adventure with Scissors and Paper, International Textbook

Creating with Paper, Pauline Johnson
Design in Three Dimensions, Randall and Haines

Crafts, Designs: Mosley, Johnson, Koenig Making Mobiles, Watson-Guptill Paper Sculpture, Mary Grace Johnston Paper Folding, William D. Murray, Francis J. Rigney

Papier Mache

Objectives:

• Study of the history of papier maché, its origin, and top-making in various countries.

• The study of maché will be an excellent introduction for studying form, color, texture, and three-dimension.

Study of three processes of making papier maché.

Suggested Projects:

Mask making

Three-dimensional sculpture

References:

Masks, W. T. Benda Crafts for Fun, Evadna Perry Crafts Design, Mosley, Johnson, Koenig Teacher's Craft Manual, Mayo J. Bruce, Harry B.

Exploring Papier Maché, Victoria B. Betts; Davis Publications

Three-Dimensional Papier Mache

Objectives:

- The study of form, color, line, and texture in three-dimension.
- A study of the three processes of making papier maché structures.
- a. It may be modeled like clay.
- b. It can be used over a frame.
- c. May be pressed into a mold.

Media:

Newspapers

Paper towels

Wallpaper paste

Objects on which to build forms—

- I. Bottles
- 2. Boxes
- 3. Fruits
- 4. Balloons

Method:

- 1. Paper pulp method—Tear paper into small pieces and place in pan. Cover with hot water and soak for several hours. When the pulp is broken down and water squeezed out, paste or glue is added. It can then be modeled like clay or added to newspaper forms.
- 2. Paper strip method—Tear paper into strips. Dip the strips in the paste mixture and then apply to the desired form.
- 3. Press mole: method—Either strips or pulp may be used. A ready made form, such as a bowl or tray can be used. Just grease inside with vaseline or cold cream to prevent adhering to sides. Build up desired thickness with maché. Dry. Remove and decorate.

Suggested Projects:

Human figures Animals Trays
Birds Bowls Free form

Three-Dimensional Art

This area, one of tremendous scope, will include: Model making, sculpture, stabiles, mobiles, and all three-dimensional art forms not specifically included in our crafts section.

Sculpture:

Sculpture provides a fine example of the continuity of the art program. On the elementary level, youngsters are given the opportunity to use modeling clay and to create highly imaginative and expressive forms often in a primitive but uninhibited way, manipulating and exploring, then joining and making these objects stand.





By junior high, these models will be carried further and brought into a more permanent form with a greater degree of refinement.

In the high school art program, sculpture is expanded through subject mater, structure, research, and methods of casting in more permanent material. The student who is able to combine the aesthetic with the skills and knowledge of intricate casting may produce a work of art and can credit this accomplishment to a continuing art education.

The art teacher must impress upon the student the importance of rhythm and design in three dimensions. The sculpture will be viewed from countless angles and, therefore, it is imperative that this fact be considered. The finest sculptures have beauty, feeling, understanding, and rhythm from any vantage point.

Materials:

Tools	Media	
Knives	Plasticine	Plaster of Paris
Brushes	Newspapers	Soap
	Sculp metal	Wood
	Wite	Pariscraft
	Paste	Styrofoam
	Fabric	Chiphoard
	Stone	Common pins
	Poster paints	Aluminum
	Masking tape	plates
	Mixing bowls	Sieve
	Liquid rubber	Lard
	Matchsticks	Toothyicks
	Paper	Straws
	Clay	



Mask Making

Objectives:

- An extension of portrait drawing using human features as a basis for exploring decorative design.
- The cultural significance : * the mask in past and present civilizations.

Materials:

Medi	i i
Pencils Paper towels Modeling board Wheat paste Masking tape	White drawing paper Tempe.a Placticine (clay) Shellac Acrylic
	Pencils Paper towels Modeling board Wheat paste

Method:

Have students make mask forms by building up the form on a board with plasticine or by building up wads of newspaper and securing in place with tape. In each method, after the form is ready, apply several layers of wet strips of paper without paste to keep maché from sticking. Then start applying strips of paper dipped in paste until desired thickness is achieved. After allowing to dry, remove mask from form and decorate.

Crafts

Crafts provide a stimulating outlet for the creative energies of the student. Experiences with new processes and materials are particularly interesting to the hadividual. His interest in acquiring new skills, and his need for finding status within as group becomes factors in motivations.

Crafts also fill a need for the student who feels incapable of individual expression in other forms of art. The three-dimensional reality of materials often overcomes this lack of confidence. Successful craft experiences develop an awareness that form, color, and design operate in areas other than painting and draw-



ing. Contact with three-dimensional design develops an ability to evaluate commercial products which he, as a consumer must learn to make.

A student may find as much satisfaction in crafts as in paintings or drawing. The tangible quality of craft material often releases creative expression in the most inhibited. Controlling the development of form and material brings about confidence and a sense of purposeful achievement. The value of this experience during the emotional stress and insecurity of adolescence is quickly recognized.

The student may be more responsive to aesthetic values in objects he considers to be practical. Design elements become more meaningful if presented in the form of an object made for the home or for personal use. It may be for the first time that the student is experiencing three-dimensional design. An outgrowth of this experience could be a keener interest in the form, color, and functional design of all objects about him.

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Silversmithing

tudes, there is opportunity for growth in skills and techniques.

Design

As an introduction to metal craft, a brief discussion of metal work, its historical significance, and development at various cultural levels may be stimulating. Illustrative or visual material, anecdotes, and good examples of professional and student work should be chosen carefully by the instructor. Some time should be spent discussing the properties of iron-ferrous metals and their reactions to treatment. Experience has shown that the student will progress more rapidly if a notebook is kept in which technical information and processes are available for reference. Good attitudes toward craftmanship should be reflected in the proper care and use of tools.

Techniques and Suggested Problems

Jewelry and larger metal work are developed together in this guide by listing suggested projects in the order of the technique involved. It is expected that the instructor will choose those experiences which will best fit the needs and interests of the student. The average student will complete five or six projects the first semester.

A useful glossary and discussion of tools and equipment can be found in *Jewelry Making* by Kenneth Winebrenner, pp. 79-88.

First Project

Techniques:

Cutting (strips), filing (smoothness and textural effects), hammering, bending, folding, twisting, annealing, and pickling.



Through creative experiences in metal craft the student will develop an awareness of beauty in manmade objects. A sense of satisfaction resulting from a personal expression in material will encourage participation in further creative activity. By emphasizing experimentatio... the student may be encouraged to form original ideas, to develop independent thinking habits, and to solve his own problems arising from his work. He will develop respect for tools, materials, and the work of others. For those with special apti-



Demonstrate:

Each of the processes should be demonstrated in addition to the processes used for finishing, such as, emery cloth and steel wool finishing, buffing, and lacquering.

Suggested Projects:

- 1. Paper knife—discuss the weight, balance, size, and style. Bar stock in brass, hard copper, or bronze is the most useful, but 16 gauge sheet is suitable for this project.
- 2. Earrings—Wire and bits of metal, joined by wrapping and twisting, may incorporate either wood or stone.
- 3. Pins or pendant.—These may be made with the same type of materials as the earrings.
- 4. Bracelets, napkin rings.
- 5. Shallow trays or bowls—A sandbag or shallow form may be used for this project.

Second Project

Techniques:

Stake forming, sawing, soldering (soft and hard), and coloring.

Demonstrate:

Techniques of forming, using the jeweler's saw, soldering, forming, and etching should be demonstrated.

Suggested Projects:

- 1. Dish or bowl—a discussion of the suitability of shape and function is suggested. The student will find it advisable to draw a cross section view to determine shape and metal size.
- 2. Flat jewelry—tie clip, buckles, pins, brooch, earrings, cuff-links, pendant, or emblems. Pierced or applied design may be used in this problem. Some preliminary drawing or cut-paper work is helpful in planning a design.

Third Project

Technique:

Ring shaping

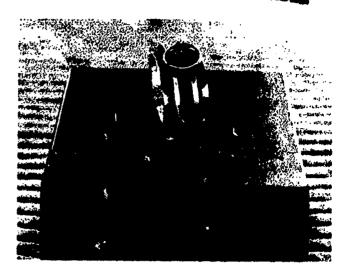
Demonstrate:

The use of the ring mandrel should be demonstrated to familiarize the student with ring sizing, determining ring size, and fluting.

Suggested Projects:

- Band ring Applied decoration with wire, cut sheets, decorative drilling, and piercing may be tried.
- 2. Formed or shaped pieces—handles, foot, spout, or lid may be planned for a vase, planter, pitcher, or watering can. Decorative techniques may be included in the design.

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Fourth Project

Technique:

Stone setting, bezel development, and seaming.

Demonstrate:

The use of the burnisher in bezel development, tapsetting, hinge construction, lap-seaming, dovetailing, and butt-soldering should be shown.

Suggested Projects:

- 1. Stone setting—ring, brooch, earrings, buckle, paper knife. The student should give careful consideration to the suitability of the design of the mounting as related to the stone and material being set.
- 2. Box form—planter, cigarette, or card box, silent butler, candy dish, or tray. The primary consideration regarding technique will be joining or lap-seaming, butt-soldering, fitting the bottom, and lid-hinging.

Fifth Project

Technique:

Link forming and gang soldering.

Demonstrate:

Chasing repoussé tools, and the use of the pitch block should be demonstrated.

Suggested Projects:

- 1. Chain and clasp construction.
- 2. Chasing and repoussé work on suitable projects. Careful planning of the design is necessary before working on the metal.

Sixth Project

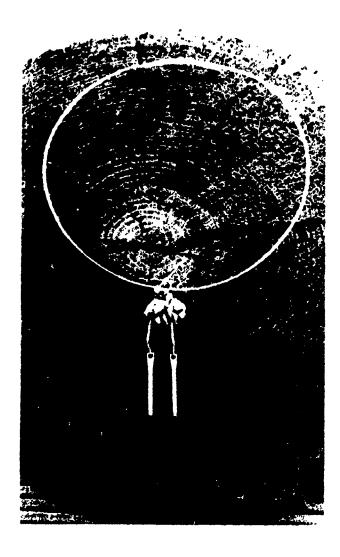
Technique:

Hinge and catch construction Forging

Demonstrate:

Techniques of forging from bar stock, work hardening, tempering, and tube drawing should be demonstrated.





Suggested Projects:

- 1. Miniature box construction.
- 2. Unit jewelry. Reproduction of identical parts to form a unified whole should be emphasized.
- 3. Handwrought flatware.

Suggested Activities:

Mobiles, stabiles Simple abstract metal sculpture forms Simple forming of tray or bowl Tie clips, pin, cuff links, pendants, etc.

Materials—Warehouse Item:

Abrasive cloth: 80 grit, 120 grit, 180 grit

Ball peen hammers: 2 and 4 oz.

Bench vise, small

Brushes, small, for applying flux

Carlsorundum stone

C-clamps

Center punch

File cleaner

Files: flat, round, triangular, half-round in bastard,

2nd cut, mill cut, smooth 10"

Flux: resin

Hacksaw blades: 10", fine

Hacksaw, adjustable

Hand drills

wders' saw frames 4" welers' saw frames 6"

Kerosene

Lacquer, clear, metal

Lacquer thinner

Mallets, boxwood (large)

Mallets, boxwood (small)

Metal snips, 6"

Metal snips, 12"

Pliers, 5" side cutter

Pumice or scouring compound

Sal ammoniac: cleaning and soldering irons

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Scrub brushes, 4"

Scribers

Solder: % and %

Soldering irons

Steel squares, 6" x 12"

Steel wool, medium and fine

Twist drills: %" to %"

Tripoli compound for buffing

White diamond compound for buffing

Materials—Outside Furchase:

Annealing tongs, 18"

Asbestos blocks, $6'' \times 3'' \times 1''$ (1'' asbestos strip spiral wound)

Charcoal blocks, 6" x 3" x 1"

Bench pins, hardwood, 8" x 2" x %"

V-notch one end, use C-clamp to fasten to bench

Bezel mandrel

Buffs

Brass wire, 6"

Bristle wheels, 2", 4"

Cratex or brite boy; available in 3 grades, various shapes for buff or hand use. Good for fast cutting where emery cloth is difficult to use.

Felt: hard, square-faced, knife, edge, cone (Various sized cones are useful for buffing inside of rings—are less apt to cause accidents than emery cones on wooden mandrels)

Stitched muslin, 6" or larger to fit equipment

Stitched flamel, 6" or larger to fit equipment

Buffing motors (one or more) approx. 1700 r. p. m. with dial shafts for permanent installation of buffs. (It is preferable to have one heavy duty buff for large-metal work and allow quick removal of different buffs).

Circle cutter (not essential)

Combination gas or air torch

Prestolite tank and gauge (several terches may be operated from one tank by proper valving).

No. 6 torch tip needed for annealing

No. 1 or No. 2 for small soldering operations

Grinder, double shaft, 5 h. p. or heavier

Squaring shears, 36"



Stakes-

T-shaped raising stakes

Steerhorn

Beak horn

Seaming

Planishing

Tray edge

Square, flat

Knife edge

Bottom, round, 3 sizes

Spoon, two sizes

Stake holders, assorted for small shaping stakes Stake plate, mounted securely on heavy bench Vise, machinist's heavy duty, securely mounted

Materials—Permanent Installation:

Pickling equipment—A vat constructed of wood, painted with asphalt paint, lined with sheet lead, fitted with snug cover is best. A five gallon crock thoroughly coated inside with asphalt, set in a tray similarly treated may be substituted. For small work, a pyrex glass bowl set in a lead-lined or acid-proofed tray is more practical. A wooden salad spoon will allow pickling of tiny pieces of metals as the spoon floats in the bowl, and is also useful for retrieving work from the bottom. Provision should be made so that pickle vats may be readily cleaned.

Bracelet mandrel

Draw plate—one combination square, round, half-round (smaller hold about 30 gauge)

Draw tongs

Files, ½ round tapered, 6", No. 2, and No. 3 cut

Files, needles, set of 12 assorted

Flux, borax (Handy-flux, E-2-Flo, Battern's)

Hammers—rawhide, raising, plamishing, chasing

Special raising shapes as required

Hand scraper (may be made from old triangle file)

Iron binding wire: No. 22 and No. 28 B&S gauge Mouth blowpipe

Old toothbrushes

Pickling compound—Sparex No. 2, sulphuric acid (1 part to 12 parts of water is faster but dangerous)

Pickling tongs, copper or bronze ·

Pliers, chain nose, 5"

Pliers, round nose, combination, flat nose (satisfactory substitutes for the chain nose and other shapes may be made by filing the jaws or ordinary long nose pliers

Ring clamps, wooden

Ring mandrel, calibrated

Ring mandrel, uncalibrated

Set ring size

Rouge, red or white

Silver solders—three grades, sheet form (better color match than wire form) (Latter useful for large work. Precut into small snippets, keep in labeled

boxes.) Wire form may be cut to 2" length, attached to a labeled ring.

Sterilizing solution

Thickness gauge

Tweezers, soldering

Tweezers, pointed

Twist drills: sizes 50 and 80 assorted



Materials—Equipment Outside Purchase:

Annealing ring, gas fired, permanent installation or Annealing pan, sheet metal pan, approximately 20" diameter by 3" deep, filled with lump pumice (better if mounted to revolve).

Anvil, 80 #, securely mounted

Bench shear, 3" blade, Beverly or equal

Box brake, 12" to 16"

Buffer hood (may be purchased or made from sheet metal)

References:

The Design of Custom Jewelry, Robert Von Newman; Chilton Co.

Copper Craft and Silver, Karl and Norma Kramer; Chilton Co.

Enamcling on Metal, Oppi Untracht; Greenberg Publishers

Metaleraft and Jewelry, Emil F. Kronquist; Bennett Cabochon Jewelry Making, Arthur & Lucille Sanger; Bennett

Jewelry Making, D. Kenneth Winebrenner; International Textbook Co.

Handwrought Jewelry, Lois Franks; McKnight & Mc-Knight



Enameling

Objectives:

- Enameling offers exceptional opportunities for the study of color and design in a medium that is appealing to the student.
- Individual expression is stimulated through a variety of colors and design possibilities.



- Since enameling does not lend itself to imitative realism, the student is encouraged to work creatively with color and abstract design.
- The flexibility of enameling techniques makes this craft adaptable to the needs of each student.
- The beginner finds the confidence through success with basic methods, while the advanced student finds stimulating processes to meet his widening interests and abilities.

 Working with glazes, metals, and other new materials often develops interest in related erafts.

Materials:

Tools Abrasive cloth Carborundum stone Brushes lewelers' saws, frames. Files and blades Pumice Lacquer Metal snips Steel wool Palette knife Twist drill and bits Vise: Kiln Buffer Asbestos gloves Asbestos blocks Enameling fork Atomizer Gum tragacanth Enameling rach lewelry findings Jewelry cement Needle files Jewelers' pliers Pickling compound Pattern snips Screen cloth, 60 mesh or Rawhide mallet nylon stocking Silver solder Tweezers Torch Sheet metal (18 gauge) Tongs Soldering flux Soft sheet copper— 20 gauge (24 oz.) 18 gauge (32 oz.) Media

Suggested Projects:

Ball peen hammer

Flat pictures (sma blocks or large sheets)

Copper Enameling

Suggested Projects:

Earrings Tie clasp Plaque Pins Buttons Ash trav **Pendants** Napkin rings Cuff links Bowls Bracelets Belt buckle

References:

lewelry Making as an Art Expression, Chilton Publishers

Coppercraft and Silver, Karl and Norma Kramer; Chilton Publishers

Enameling on Metal, Oppi Untracht; Greenberg Publishers

Techniques:

- The Limoges technique is Lest suited for most experienced with this medium. A variety of methods are satisfactory for applying the enamel but "dusting" is one of the least demanding of time and skill for the beginner.
- Gum tragacanth can be brushed or sprayed on the copper prior to dusting on enamel. Only spraying can be used if several layers of enamel are applied on the unfired piece.

• Excess chained can be caught and returned to the container if a clean sheet of paper is placed under the article being dusted.

Enamel

- Experience will enable the student to determine the exact thickness for the layer of enamel. Demonstrate how colors can be blended, edges darkened, and lumps and threads added for special effects.
- A sample tile should be fired both in the kiln and with a torch to show how enamels fuse. The latter method will afford the student a better view of the process. To avoid damage to the project, have the student allow time for the piece to dry before firing.
- After the first firing, show the student how stencils, overglaze, and sgraffito can be used to create designed effects. Counter-enameling may be demonstrated but beginners should not be expected to attempt the
- Demonstrate the steps involved in finishing enameled wire.
- Scale may be removed with steel wool and edges finished with a wet carborundum stone. The stone should be used in a horizontal direction to avoid chipping the chameled surface. Findings may be



soldered or cemented into place. The brightness of the exposed copper surfaces can be protected with a coat of lacquer.

• Champlevé, cloisonné, or plique-a-jour are techniques which may be tried by advanced students.

NOTE--Small glass bottles with removable 60 mesh screen tops make excellent containers for dusting enamels.

Emphasis:

- Understanding use of transparent and opaque colors.
- Planning shapes (cutting and filing)
- Cleaning
- Understanding various enameling techniques (sgraffito, cloisonné, champlevé, steneiling, dry sift, slush, etc.)
- Understanding firing procedure.
- Understanding reasons for enameled objects cracking, cooling too rapidly, dirty enamel, dirty copper, enamel too heavy for weight of copper.
- Finishing and soldering
- Facilities for firing and equipment required for forming metal will limit the dimensions and type of project. Within these limitations, however, the scope of the course can be varied and stimulating.

Cutting, Shaping, and Cleaning Copper

Cut-paper is a useful method for planning designs, for shapes can be developed and refined quickly. After the design has been chosen, it can be cemented to the metal to guide cutting. The design will determine the tools for the cutting.



The beginner will have more success in cutting straight-sided shapes with metal snips. Likewise, enameling can be accomplished more easily on a flat surface than on an angular or curved surface. As skills are gained, more complex designs may be attempted.



After cutting the metal, it should be pounded flat with a rawhide mallet. The vise, pliers, and metal forms may be used to bend or curve the metal shapes. Forms may be helpful in some processes; for example, in turning the sides on a small box or pin. This illustration is used to clarify the term "metal form" to avoid confusing it with mechanical copying.

When finishing with files, the student may find it helpful to leave the metal burr raised slightly on the side to be enameled. This will hold the unfired particles of glaze in place until the firing is completed. Thinly enameled edges which show up as black lines may be avoided this way.

It is necessary to remind the student repeatedly that cleaning is one of the most important steps in successful enameling.

If pickling solutions are used, safety precautions should be observed. Some teachers have found a vigorous cleaning with steel wool and detergent to be effective. Pickling could be reserved for those processes which require a brighter metal.

Objectives:

- To acquaint the students with enameling history, its use commercially, and its value as a craft.
- To arouse interest in the various techniques of enameling and to stimulate interest in working with color.
- To gain knowledge and skills in handling the tools and equipment used in enameling.
- To learn about firing procedures.

Design

If design is to become a creative experience, it should be developed through an exploration and understand-



ing of material. When it is taught as an abstract concept, separated from need and experience, it may develop imitativeness and uncertainty. Because of the student's immediate interest is in starting work with a new and exciting craft material, he is likely to be impatient with a formal consideration of design. Experimentation with a small tile and a few enamels should follow a brief demonstration of the enameling process. Design will be expressed intuitively through choice of colors and arrangements. The finished tiles could become the subject for a meaningful class discussion of design and technique. A reference chart might be made from these tiles. Throughout the term new samples could be added as interesting techniques are tried.

To avoid burdening the student with technical problems, materials should be limited and techniques simplified. For example, the metal tiles could be precut and the enamels could be restricted to opaque colors. Threads and lumps of enamel add interest and variety.

Though accidental effects are interesting and often suggest new techniques, the student should strive for control of the medium. After experimentation with materials, a block of time should be set aside for a consideration of design and its application. Most of the projects will be concerned with two-dimensional shape and surface enrichment. While means for teaching design will vary between grade levels, certain fundamentals may be considered as universal. Each design should exhibit a successful relationship of shape or form to function, construction, and decoration.

The beginning student may study shape through free brush or cut-paper exercises, while color combinations can be explored with transparent or opaque watercolor. Spattering, stenciling, and mingling give the student practice with techniques that are adaptable to enameled design. The advanced student should be encouraged to try decorative designs which may be used for sgraffito, overglaze, or cloisonné. When working in a new material, the student needs guidance in relating design to his skill in the use of tools. Problems frequently arise when a familiar material is used for planning a design to be executed in an unfamiliar process. Frequent demonstrations in the use of tools should be helpful to the student.

Glass: Slumping—Laminating—Jeweling



Objectives:

- To gain knowledge about glass, its history, its composition, and the modern processing of glass.
- To become adept at handling glass and the tools which have to do with glass craft
- To understand glass, its potential and its limitations as a material for crafts.
- To make well designed projects by using the various techniques such as slumping, laminating, and jeweling

• To learn how to fire glass for the various techniques to be used.

Materials:

Tools Media Hand cutter Glass—bottle glass Lubricants for cutting picture Padding (cork or firm window (single) window (double) carpeting) Glass cleaner textured Clean rags plate Abrasive stone industrial stained Graphite glass pencils Whiting Materials for lamination Copper enamels Underglaze Metals **Fiberglass** Mica Wide-jawed pliers Kim—enameling ceramic

Concepts:

Understanding the various characteristics of sheet glass—

Molds-Terra cotta

Fire brick

Firing procedures
Making molds
Separators
How to cut glass properly



Lamination

Slumping

Jeweling

Making wire extensions

Various decorating techniques

Adhering glass to other materials such as clay

Suggested Projects:

Bowls

Dishes

Blanks for decorating purposes

Suspensions

Panels

Standing objects

Lamps

Jewelry (all types)

Trivets (glass fired between cast iron edges)

Paper weights

Christmas ornaments

Various projects where glass is adhered to clay

Glass—Fusion and Lamination

Working Knowledge:

Designing templates

Forming lead shape

Casting lead shape in refractory materials

Cutting glass

Fusion of glass

Lamination of glass

To illustrate pictorial theme in a glass laminated plaque

Concepts:

The fitting of the decoration on transparent plane.

The use of heat in shunping and annealing glass.

The functional aspect of the foot rise to form.

To design and vent marinite beds for glass plaques.

To work with opaque and transparent colors on glass.

To create texture within glass using compatible materials.

Suggested Projects:

To design, form, east, cut glass, decorate glass tray,

To create jewelry by utilizing glass scraps.

To make a laminated glass bowl.

To write a report on each project.

Design pictorial glass plaque with back-lighting effect.

Design pictorial glass plaque and frame for reflected light effect.

Plaster

Working Knowledge:

Construction of complex form

The piercing of planes in form

Various methods of decorating plaster sculpture

Concepts:

Preplanning for control of complex statements. Use of tools for piercing planes and creating texture. Metallic spray finish for metal effect. Tempera and wax finish for patina.

Suggested Projects:

Complex single theme of figure or animal image.

A non-objective exploration of a plaster form with texture and piercing technique.

Stained Glass

Objectives:

- To learn about historic cathedral glass.
- To stimulate interest in the effects of light through transparent colors and to work out designs accordingly.
- To gain skill in cutting and joining glass pieces.

Media

Class (of uniform thickness and various colors)

India ink

Charcoal

Graphite glass pencils

Glass entter

Gloves operantion against cuts :

Ted or groung

Paper for cartoon athumbhad sketches (





Concepts:

Planning design (emphasis on color effects)
Making cartoon (simplicity, avoid complicated color mixtures)

Divide motif into segments Overlay glass on cartoon Cutting (safety factors) Leading Cleaning Finishing

Suggested Projects:

Panels (standing or hanging)
Lamp bases
Trays
Candle holders

Suspensions Wind chimes



Etching on Glass

Objectives:

- To learn through a simple process a professional skill
- To understand and appreciate other methods of etching.



- To be able to recognize well designed commercial objects.
- To relate the stencil process to another craft.
- To become aware of leisure time possibilities.

Materials:

Tools Media

Razor blades Etching cream Masking tape

Aluminum foil Tracing paper

Glass object

Hard lead pencil-stylus

Concepts:

Planning and tracing design Transferring Cutting stencil Masking Application of etching cream Cleaning

Suggested Projects:

Glasses Dishes Panels Trays

Suspensions

References:

Glass Craft, Kay Kiney; Chilton Publishers The Technique of Stained Glass, Patrick Reyntiens; Watson-Guptill

Mosaics

Objectives:

- The ability to create an interesting design using small pieces of glass, clay, seeds, paper, wood, stone, adhered to a background.
- Development of an appreciation of color and texture.
- To provide an opportunity for individual or group work.
- To promote interest in mosaics, their relationship to past cultures, and their revival as a contemporary art form.



Materials:

Tools Media Tile cutters Glass tesserae

Glass cutters Many varieties of glazed or unglazed ceramic tile (bought or handmade)

Glass (transparent or opaque) Panels (plywood or masonite) Grout (cement for things needing

firmer support)

Adhesives (magnesite, miracle adhesive, Elmer's glue) Pieces of various colored wood

Shells Paper

Different colorful pieces of scrap—

Stones **Pebbles** Broken bottles Dishes Plastie Linoleum Buttons Beads

Seeds

Concepts:

Understanding range of color, texture, and materials which can be used as a mosaic.

Planning according to material used and its future environment.

Skill of cutting and placing pieces. Finishing.

Suggested Projects:

Designing

Cutting and arranging mosaic pieces

Grouting techniques

Group murals for school or community

Mosaic sculpture Series of related panels

Individual mosaics

Portraits

Figure compositions

Abstract and geometric designs

Trays, tables, etc.

References.

Mosaic Patterns, Edwin Hendrickson; Hills & Wang **Publishers**

Mosaic Hobby and Art, Edwin Hendrickson; Hills & Wang Publishers

Wood

Objectives:

- To learn about wood, its natural beauty, its potential for crafts.
- To recognize good design in wood and make intelligent and sensitive selections as consumers.
- To gain knowledge of how wood is used in other areas, such as architecture and interior design.

Materials:

Tools Media Wood carving G or C clamps Woodtools Power drill pine Oil stone Chisels basswood Stains Sandpaper redwood Mallet Paints balsa Philippine Nails, screws, Sawe tacks, etc. Sander mahogany Square (vibrating) Wood scraps Adhesives Plane Oils for finishing Surface plane Varnish (round and flat)

Working Knowledge:

Understanding the various tools and their uses, care, sharpening, and safety.

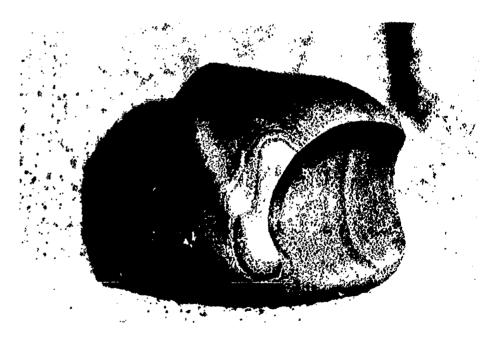
Knowledge of different types of woods.

Planning steps necessary for control in working with wood.

Lamination of woods.

Concepts:

Planning design of object and approach



Selection of wood appropriate to scale and idea Working knowledge of graining of woods Proper safety precautions (tools, safety mask) Understanding basic joints Working with properly dried wood Various methods of finishing woods

Suggested Projects:

Projects in soft woods for basic cutting skills Project in soft wood to study grain characteristics Hardwood project which is developed within the individual's creative interest



Wood in conjunction with other materials (such as silver, copper, etc.)

Masks

Various projects-

Bowls Trays Frames Wall hangings Jewelry

Mobiles and stabiles Carvings Animals **Figures**

References:

The Art of Wood Carving, John Upton; Van Nostrand Wood Design, Donald Willcox; Watson-Guptill Wooden Images, Norman and Jones; Reinholt Creative Wood Design, Ernst Rottger; Reinholt Wood Carvings for Beginners, C. Graveney; Reinholt Wooden Images, Laliberte and Jones; Reinholt

Leather such as cowhide or steerhide in various

Rivets

Leather finishers

Saddle soap

Dve

Leather

Media

Snaps

Neat lac

Concepts:

Objectives:

- To acquaint the student with leather, its source and preparations for use, its use in industry, and its possibilities and limitations for craft projects.
- To learn the history of leathercraft from ancient times to present.
- To gain knowledge about leather tools and how to use them.
- To provide possible leisure time activities.
- To understand and recognize the various techniques of decorating leather.
- To stimulate interest in buying wisely and intelligently.

Natural beauty of leather

Lacing (leather)

Leather cleaner

Design should enhance, not detract from natural beauty of leather

Correct laying-out and cutting of leather

weights for various crafts purposes.

Correct care and handling of tools

Construction of project

Finishing

Suggested Projects:

Book marks Coin purses Luggage tags Key cases Belts Box coverings Jewelry Glasses case

References:

Applied Leathercraft, Chris Grovemen; Manual Arts

Materials:

Tools

Skivers Modeling tools Awl Revolving punch Sponge Dye Neat lac Mallets Oblong punch Steel square (various sizes) Prong chisels Lacing needles Snap setter

Swivel knife Templates Edge erasers Leather shears Hardwood blocks

The Textile Arts

Working with Fabrics, Yarn, Thread

Objectives:

- To discover the rich heritage of textile arts.
- To understand and appreciate color and texture. to explore the possibilities of combining, arranging, and decorating these materials.
- To encourage good craftsmanship and intelligent consumer buying.
- To combine line (yarn) and form (cloth) in a creative way.
- To foster an interest in a specific area such as weaving, appliqué, or stitchery,

Materials:

Tools Media Looms Reed Warping frame Rafia Least sticks Yarns

Drawing-in-hooks Nylon stockings Strings

Shuttles





Concepts:

Texture and color Various type looms Basic weaves Planning warps and correct tensions Structure of cloth

Suggested Projects:

Material for— Runners Pocketbooks Mats

Working Without a Loom:

Finger weaving
Cigar box weaving
Tongue depressor weaving
Cardboard weaving
Spool weaving

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Stitchery and Fabrics

Objectives:

- The ability to arrange and combine various stitches to form a design or pattern in yarn, threads, and colors on a textile background.
- An appreciation of the rich heritage of textile arts from past to present.
- To encourage good craftsmanship—id intelligent consumer buying.
- To explore leisure time possibilities.

Materials:

Tools Media

Needles Background material—

Scissors Burlap Drill or duck Stretcher Monk's cloth Hard woven fabric

> Felt Linen Various yarns, twine, ropes

Emphasis:

Linear stitches—varying width and sizes
Groups of stitches next to each other to build texture,
pattern, and color (varying yarns)
Basic stitches which need to be mastered
Planning design
Neatness of work (sewing technique)
Finishing

Suggested Projects:

Individual wall hangings with various textures
Wall hangings using geometrical pattern, abstract pattern, semi-abstract design



Mural—one or group using central theme Pocketbooks or bags Pillow covers Scarves

Wall hanging combining stitchery, appliqué, and hooking

Textile Decorating

Objectives:

- To learn to enhance fabrics by employing various printing and dyeing techniques.
- To explore different methods of printing on fabric.
- To understand the important role fabrics have played in history.
- To appreciate the role of printed fabric in industry.
- To gain a knowledge of the various tools and materials in printing process.

Stenciling

Objectives:

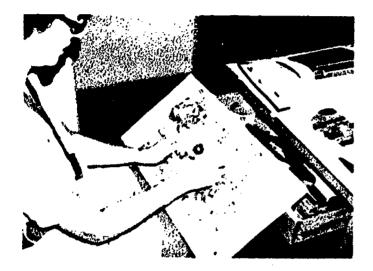
- To gain relationships of steneiling to the industry of textile designing.
- To gain knowledge about one of the more common methods of duplicating.
- To explore the possibilities of stenciling (using both positive and negative methods).



- To enhance paper or fabric for some functional purpose.
- Printing by using stencils can be used to emphasize the principals of good design and composition.

Materials:

Tools	Media	
Spray gun Stencil knives Stencil brushes	Stencil paper Thumb tacks Extender Fabric Heavy paper Thinner Backing for atta	Inks or paint (water/oil) Cardboard Textile paints Glue Tempera aching fabric



Concepts:

Color study—effect of mixtures, shading, etc.

Planning design (simplicity)

Amount of paint to be used—for brushing or spraying Cutting steneils

Cleaning (brushes, stencils, etc.)

Finishing—heat application on fabrics to make paint permanent.

Suggested Projects:

Fabrics-

Wall hangings

Place mats

Table cloths

Skirts

Scarves

Runners

Greeting cards

Wrapping paper

Stationery

Book covers

Borders, frames, etc.

Batik

Objectives:

• An understanding of the batik process and the ability to decorate a fabric using it

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- A knowledge of the origin of batik and the strong influence it has had on textile design.
- An increasing ability to make use of the fluid nature of design possible with this technique.

Materials:

Tools

Media

Brushes Hot plate Granite pans Wooden spoon

Beeswax and paraffin Tjan-tung (optional) Frame for stretching cloth

Newspaper

Iron Cold water dye
Ironing board Fabric (unbleac

Fabric (unbleached muslin, silk pongee, cotton, batiste, and handkerchief

linen)

Study and Discuss:

Japanese method of batik

Suggested Projects:

Table mats Tray cloths Wall hangings

Book covers Head scarfs

Ties

References:

Introducing Batik, Evelyn Samuel; Watson-Guptill Creative Textile Design, Rolf Hartung; Watson-Guptill More Creative Textile Design, Rolf Hartung; Reinhold Design on Fabrics, Meda Johnston, Glen Kaufman; Reinhold

Batik: Art and Craft, Nik Kravinsky; Reinhold Textile Printing and Design, Nora Proud; Reinhold Fabric Printing by Hand, Stephen Russ; Watson-Guptill

Tie-Dyeing

Objectives:

- The ability to hand decorate a fabric using this technique.
- An appreciation for good craftsmanship.

Experiment With:

The three varieties of tie-dye pattern-

Rosette Broad stripe Fine print

Materials:

Tools

Media

Hot plate Wood stirring stick Several weights of thread, twine, and cord (plumber's cord or lampwick)

Fabrics—

Glass container :

Silk Boilable dye
Sokl chiffon
Georgette Iinen
Percale Batiste
Muslin Soft viscose

Soft viscose rayon



Applique

Objectives:

- To create textile designs by fastening cut out pieces of fabric onto a background of fabric.
- To gain appreciation of the American Folk Art in this medium.
- To combine line and form (thread or yarı and cloth) in a creative way.
- To appreciate good hand-made consumer goods.

Materials:

Tools

Media

Needles

Background fabries

Scissors

Scrap materials of various colors Various colored threads and yarns

Felt Glue

Other scrap materials which can be added for decoration such as beads,

sequins, etc.

Emphasis:

Planning of designs
Learning basic stitches
Cutting experience
Arrangement of pieces against background
Finishing

Suggested Projects:

Wall hangings with subject matter and color schemes suggested by nature.



Geometric patterns on fabric. Non-objective textural studies. Group murals centered about a particular subject. Wall hingings that combine statchery with the art of applique.

Netting and Macrame Knotting



Objectives:

- To stimulate interest in an ancient craft.
- To understand how a craft can start as a necessity and become decorative.

• To accumulate knowledge about various techniques of knotting.

Strong threads and yarns

Tools Media

Small press gauge Netting needle

Pins

Firm background for stretching (frame)

Leather strips Pegs (wooden)

Emphasis:

To understand the various methods-

Filet network Looped lacing Stretching Crossed threads

Stitching Cording Twisted rope Plait

Looped rope

How to make accessories

Suggested Projects:

Shopping bags Cording
Handbags Mat
Scarfs Potholders
Stoles Purse



Rug Hooking





Objectives:

- To gain appreciation of color, texture, and pattern as combined with the craftsmanship of hooking various materials to a backing.
- As future consumers to become intelligent about selecting and buying handmade goods.

Materials:

Tools Media Rug hooks Rug yarn Rug hacking Yarn cutters Frames Wool scraps Scissors

Suggested Projects:

Rugs Mats Wall hangings Sets of samples Projects using a combination of these processes Non-objective textural studies

Weaving

Objectives:

- Student to rely on his own judgment and to find confidence.
- To develop sensitivity to color and texture.
- To learn the basic techniques of weaving.
- To apply this knowledge to individual projects in a creative way.
- To develop understanding and appreciation of weaving through its history.
- To understand the relationship of hand-weaving to
- To develop skills in the proper use of weaving equipment.

Materials:

Tools Media Sewing machine Yarus (various colors and Loomstextures) Flat Scraps (scraps that can be -2 harness used in weaving) -4 harness Cloth -8 harness Reed Drawing-in-hooks Leather and plastic lacing takle looms Nylon stockings Frame looms

Concepts:

Lease sticks

Shuttles

Warping frame

Cardboard—loom weaving

Understanding the relationships of color to texture. How to thread various types of looms.



How to use warping frame.

Know the basic weaves (6).

Correct teasion.

How to plan for finished project (such as four placemats done at one time on the loom).

Finishing.

Suggested Projects:

Set up samples (six basic weaves) Wall hangings Material for bags, ponchos, scarfs, etc. Rugs Tapestay. Rva and other knotting techniques Cigar box weaving Finger weaving



Ceramics

Few crafts have the universal appeal of ceramics. This medium offers every student, regardless of his previous art experiences, the satisfaction of creating something original and useful. The plasticity of clay encourages experimentation and provided impetus for the student's imagination. Basic skills are quickly grasped and a feeling of confidence grows through knowledge that an unsuccessful form can be changed easily.

Frequently the student who feels a lack in artistic talent discovers he is designing freely in forms, textures, and colors. Because of these qualities, ceramics makes an especially good craft experience for the non-art major and the student interested in a single art experience.

The unlimited scope for experimentation with form and decoration challenges the skill of the advanced student.

Materials—Warehouse Item:

Brushes Buckets Clay, red Clay, white Dish pans Earthenware crocks,
I gallon and 5 gallon
Modeling tools
Oil cloth
Rags
Rolling pins
Scrub brushes



Materials—Outside Purchase:

Decorating wheel
Engobes
Finishing rubber, kidney
shapes
Kiln wash
Knives, fettling

Plastic material

Pyrometric cones Slip tracer Sponges Stilts Turning tools Underglaze

I. DESIGN

NOTE:

Hand sculpture of "a handee" is made with the hands only, using a lump of clay the size of a baseball. It is not worked on a flat surface or stand so that when completed, it is an abstract, free-standing piece of sculpture. It should be worked with both hands, developing forms which emerge as a result of pressing and squeezing.

The student may be introduced to this craft with a visualization of the term CERAMICS. He may have only a vague conception of the meaning of this word. Work from previous semesters, professional examples of good pottery, and samples of the tools and raw materials of the craft will help to create an understanding. Visual aid material could be used to supplement these examples and a list for reference has been included,

Because good design recognizes the unique properties of a material, introductory craft experiences should provide for exploration. Mixing and wedging the clay will help acquaint the student with some of its physical characteristics.

Hand sculpture can achieve two important objectives. First, the manipulation of clay to disclose the working properties of the material and second, the awareness of basic volume relationships. Through experimentation, the student will find those forms best suited to the material. Many of the basic working methods used with clay will be discovered through hand sculpture.

Class Project:

Potter's wheel

Plaster
Plaster bats
Wedging board
Wooden strips-
"" x 15" for rolling flat clay slabs
Equipment:
Kiln



II. HAND-BUILT POTTERY

Hand-built ceramics should lead the student toward control of the medium. The free, intuitive forms of hand sculpture lend themselves to slab, strip, and coil methods. The teacher should demonstrate each of these techniques. These methods can be adapted to the needs of the seventh grade beginner or the twelfth grade art major. With the development of basic skills, the variety of articles which can be made is unlimited. However, the size of the student piece must be limited according to the available kiln size. These basic skills are:

1. To prepare original patterns and templates as needed in the construction of slab or coil pottery.

2. To roll an even coil or slab of clay.

3. To join slabs or coils through careful scoring and joining with slip.

4. To design and construct well-formed handles, knobs, or other appendages, and

5. To emphasize form and structure through surface enrichment.



NOTE:

NOTE:

The student may develop both

an historical interest and an ap-

preciation of ceramics produced

by primitive cultures using similar hand-built techniques.

American Indian pottery may

serve as an example,

Coil pieces may be trimmed on the wheel if desired. However this should not take the place of the experience of throwing on the wheel. It should be pointed out that the coils can be used as an interesting decorative effect.

Suggested Projects for Hand-built Ceramics

This list is not to be considered comprehensive. The teacher should discuss possible projects, listing them on the blackboard for reference. Always work in a reasonable size limit.

Slab method--

- 1. Tray—rectangular, triangular, or square
- 2. Box with cover—incised or carved monogram
- 3. Bowls
- 4. Salt and pepper shakers
- 5. Teapots
- 6. Free-form plates or shallow howls for floating flowers
- 7. Vases
- S. Tiles

Cod method--

- 1. Jars with covers
- 2. Jugs
- 3. Bottles
- 4 Cream and sugar bowls
- 5 Coil sculpture



III. WHEEL-THROWN POTTERY

While the student should be acquainted with the technique of working on the wheel, stress should not be placed upon its mastery. The degree of skill and practice needed to become proficient may be beyond the scope of the course. After throwing has been demonstrated by the teacher, work on the wheel should be determined on the basis of individual interest. The student should have an understanding of the following:

- 1. Centering
- 2. Opening the clay mass
- 3. Forming a cylinder
- 4. Shaping

5. Trimming the top and cutting the foot

Knowledge of good proportion and functional design must be considered at all times. Experimentation with a variety of shapes from tall bottles to shallow plates should be encouraged. Spouts, handles, lids, and similar appendages should be studied for form and construction.

Suggested Projects for Wheel-Thrown Pottery

Bowls
Jugs—with pulled handles and spouts
Plates
Casscrole with cover
Tea or coffee pot
Bottles

IV. MODELING

The student often finds great satisfaction in clay modeling. The adolescent's interest in the representation of the human figure finds a natural outlet in this activity. This experience may be correlated with previous three-dimensional work, such as mask-making, puppetry, or design. Realistic or abstract subject matter may be chosen depending upon the student's interest, but certain technical and aesthetic limitations must be stressed. Those described below may serve as an outline.

- 1. Clay should be heavily grogged to prevent warpage.
- 2. Coil or slab methods may be used to construct abstract or realistic sculpture.
- 3. No armature can be used to support the sculpture if it is to be fired.
- 4. Large pieces must be hollowed out. About %" should be the maximum thickness of the walls.
- 5. Sculpture should be designed in relation to the characteristics of the material.

V. GLAZING AND DECORATIVE EFFECTS

Glazing and decorating the bisque ware can be an exciting adventure. The transformation which the glazed ware undergoes upon firing always stirs the student's imagination. Charts and glaze tiles will help create an understanding of the many terms and techniques related to ceramic decoration. At first, it may be wise to limit the choice of techniques to a few. For example, engobes, sgraffito, and a transparent glass offers a variety of possibilities and enables the student to thoroughly understand one process.

The student should understand what constitutes a glaze, the functions it performs and its correct application to bisque or green ware. Some areas for exploration might be:

- 1. Engobes, or colored slips, combined with sgraffito.
- 2. Glazes combined for mingling fusion, or jewel effects.
- 3. Underglaze or overglaze designs.
- 4. Slip trailing and wax resist design.
- 5. Interplay of glazed and unglazed surfaces.

VI. STACKING AND FIRING THE KILN

A basic knowledge of the working of the kiln and procedure for stacking should be part of the course requirement. The beginning student should be expected to stack the kiln for a bisque firing at least once during the summer. Stacking for a glaze firing might be performed by advanced students with the teacher's guidance

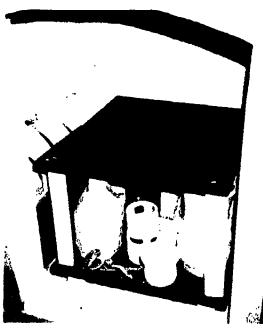




NOTE:

All glazes should be tried on sample chips. These chips may be tied about the neck of the corresponding glaze bottle or they may be kept tied together. Each chip should have the name and number of the glaze it represents inscribed on the back.





Some Faults That Show Up After Glaze Firing:

1. Pin holes This may be caused by air holes in the clay.

Rough surface

If a coating of glaze is applied too lightly, a rough surface may result. It may be corrected by warming the piece on a radiator and re-glazing.

If a glaze is applied too heavily or if it is fired above its recommended temperature, blistering may occur. The piece should be refired at a lower temperature and slower speed.
4. Running

Firing above the recommended cone for a glaze may produce running.

5. Crawling Crawling may be caused by either underfiring or the presence of dust on the bisque at the time of glazing. The student should lightly sponge the piece to remove the dust. This condition can be corrected with re-glazing and re-firing.

Crazing is an indication that the glaze and clay body do not fit. It is caused by the glaze contracting more than the clay.

References:

Ceramics, Glen Nelson; Holt, Rinehart, Winston Pottery-Form and Expression, Margarite Wildenhein: Reinhold

Hand Built Pottery, Joseph Drum; International Com-

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Stoneware and Porcelain, Daniel Rodes; Chilton Company.

Clay

Objectives:

- To acquaint the student with the properties and limitations of clay.
- To foster an appreciation of the history of clay, and of well-designed clay objects.
- To afford an opportunity to learn about the various materials and equipment used in working with clay.
- To interest the student in the wide use of clay in industry and to aid him in making wise consumer choices.

Materials:

Tools

Clay modeling tools Cones Plastic bags Stilts Scrapers

Bench whirlers Ticking or canvas Fettling knives **Posts** Rolling pins Thickness sticks Kiln

Kiln shelves Sponges Potter's wheel Clay bins

Wedging board

Media Clay Engobes Glazes

Working Knowledge:

The importance of a design appropriate to the material Wedging

Proper handling and preparation of clay to achieve best results

Hand-building methods such as pinching, coiling, and slab construction



Glazes and glaze application

Decorating techniques such as surface enrichment, underglaze decoration, etc.

Decoration if used should enhance the basic form Firing procedure

Suggested Projects:

Pinch pot **Tewelry** Free-form pieces Coil pottery Slab building Bas-relief

Sculpture Experimental samples Tiles

Mosaics (see art section for materials)



Ceramics

Working Knowledge:

Clay—its properties, qualities of various clay bodies, and the various states of clay.

Ceramic l'iln—the firing of clay bodies in kiln to make bisqueware, to "fit" engobe, or glaze decoration on bisqueware.

Emphasis:

Understanding the possibilities and limitations in working with clay in various states—plastic, bone dry, bisque.

Suitability of applied decoration to design and purpose of a piece.

Understanding the ceramic kiln and its control points, proper loading of kiln for greenware and glazed ware.

Learning to remedy common defects in firing.

Suggested Projects:

Construct simple forms using basic hand forming techniques—pinch, coil, slab. Keep journal on all firings and materials used in projects.

Demonstration of application techniques.

Application of suitable techniques to each piece.

Have students experience loading kiln.

Have students operate temperature controls during firing.

Have students compile descriptive glossary of ceramic terms

To write a report on each project.

The Potter's Wheel

Working Knowledge:

Learning to throw and finish pieces on the potter's wheel.





Emphasis:

Development of skill in the control of clay on the wheel—centering, hollowing, and pulling up the clay.

Suggested Projects:

- 1. Throwing of basic shapes
- 2. Turning
- 3. Attaching of handles and shaping of spouts

Background and Appreciation:

Demonstration by instructor

Films if possible

Mold Making and Casting

Working Knowledge:

Making of a mold from a well-designed piece by the student.

Emphasis:

- I. Good craftsmanship—care and accuracy in the preparation of the mc'el and in the use of plaster.
- 2. Mold making using and.

Suggested Projects:

- 1. Making of one and two piece molds.
- 2. Making of a press mold.
- 3. Making of a sand mold.
- 4. Casting of the above.

Background and Appreciation:

Demonstration by instructor Films







Firing Ceramic Ware

Working Knowledge:

Firing clay bodies in the kiln to make bisque ware or to "fiv" engobe or glaze decorations on bisque ware.

Emphasis:

- 1. Loading the kiln
- a. How to load greenware
- b. How to load glazed ware
- 2. Learning the qualities of various clay bodies and what happens when they are fired.

- 3. Learning to remedy common defects in firing.
- 4. Learning to apply rules of safety.

Suggested Projects:

- 1. Give students experience in loading the kiln.
- 2. Have students operate temperature controls during the firing.

Background and Appreciation:

Study of the parts of the kiln and how it operates. Study of various methods, old and new, employed in firing ceramic ware.

Ceramics

Objectives:

- To arouse interest in making beautifully designed clayware or sculpture with an understanding of the relationship of texture and form to design.
- To acquaint students with clay through understanding its sources, its relationship to history, its potential as a craft, and its use in industry.
- To acquaint students with the tools, equipment, and various techniques involved in working with clay and glazes.
- To acquire knowledge about glazes and glazing.

Materials:

Cones Wedging board Modeling tools

Kilo

Thickness sticks Knives (fettling)

Potter's wheel

Clay (various kinds such Scrapers as carthenware, stone-

Sponges Tickling

Benchwhirlers Rolling pins

ware etc.)

Clay bins (storage for clay)

Plastic cloth and bags

Kiln furniture—shelves, shell supports, stilts, triangles

Working Knowledge:

Preparation (mixing and wedging clay)

Preparing and understanding methods of glaze application—brushing, dipping, spraying, or pouring

Learning of basic methods of making clay objects draping, coiling, slab, pressing, pinching, etc.

Correct use of the potter's wheel.

How to stack and fire a kiln.

How to make a plaster mold.

Various decorating techniques -- sgraffito, incising, overlaving, slip, engobe, sprigging, banding, etc.

How to slip cast.

Temperatures of firing stoneware and earthenware clays.

Suggested Projects:

Make a piece of pottery using:

Coil method

Potter's wheel

Slab method

Make a plaster mold and slip cast

Design a functional project which combines various techniques



Create a sculpture

Make pots with texture (multiple pots)

Create a project that combines a variety of materials:

Clay with metal Vases
Clay with wood Bowls
Clay with leather Abstractions
Jewelry Candle holders
Mugs Lamp bases
Pitchers Figures

Draping Methods of Sculpture

Working Knowledge:

Prepare dness

Necessity for simplicity and directness of approach

Fluidity of form

Figures Animals Birds Free form

Materials:

Tools Media
Container for Wood
Plaster Water
(plastie) Fabric

Fabric Excelsior
Paper Paint
Sprays Glazes
Shellae Varnish

Plaster of Paris

Wire

Concepts:

Application of quick and easy method of sculpture. Use of simple wooden support (plaster base). Addition of wire for rhythm, contrast, and emphasis. Need for underpadding of soft materials.

Preparation of plaster.

Methods of dipping and draping.

Necessity for special attention to the rhythmic movement of the folds.

Introduction of conventional methods of finishing Advantages of draping technique for specific effects.

Clav

Materials and Tools:

Plaster of Paris or

gypsum
Rubber mold
Rubber mold
Razor blades
Shims
Lard
Plasticine
Rope, rubber tubing
Masking tape
Rubber cement
Razor blades
Razor blades
Newspaper
Elmer's glue

References:

Contemporary Sculpture Techniques, John Baldwin; Reinhold

A Sculptor's Manual, Clarke and Stroud; Reinhold Starting with Sculpture, Robert Dawson; Watson-Guptill

Sculpture

Suggested Projects:

1. Make sketches while observing animals. Draw your pet in various positions.





- 2. Studying of animals from anatomy books:
- a. Construction of a wire armature of an animal to be covered by plaster, using burlap where necessary
- b. Form abstract and conventionalize these studies in clay.
- (1) Finish with steel wool and sandpaper.
- (2) After baking use to decorate with stains or glaze.

Concepts:

Construction of a flexible, functional armature which





Bas relief Reliefs Round

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Concepts:

Additive method of sculpture Possible use of armature, skeleton of framework Turning model as development proceeds Different techniques for finishing

Working Knowledge:

The difference between bas relief and sculpture in the

Importance of proportion, texture, rhythm, and unity. Dramatic quality of understatement.

will express the personality or emotion of the creature when covered by plaster.

Stress large rhythms, line, and mass. Omit too much detail.

Portrait in Clay

Working Knowledge:

Modeling of a life-size head, either a likeness or com-

Style and degree of realism to be determined by pupil. Good structure. Awareness of the anatomy of the human head.

Sculpture: Mobiles—Stabiles—Wire

Working Knowledge:

Three dimensional art forms. Space and light are part of their design.

Concepts:

Creation with mass, simple rhythmical, flowing lines or geometric shapes that are thoughtfully balanced.

Suggested Projects:

- 1. Wire animals
- 2. Decorative holiday stabiles
- 3. Wind bells
- 4. Mobiles

Background and Appreciation:

Study the relationships of space, form, and color in works of art including G. cometti, Eames, Moholy-Nagy, Gabo, Glee, Calder, Henry Moore,

Experiences:

Modeling the additive method **Plaques**



Sculpture: From Solid Forms

Carving and Cutting:

The subtractive method-**Plaques**

Bas relief

Round

Incised

Concepts:

Subtractive method of sculpture.

Need for preliminary drawing and careful planning. Demand for accuracy and kinesthetic control.

Working from coarse to fine cutting tools.

Various materials that can be used.

Need for texture on certain materials.

Positive and negative space.

Techniques for cutting.

Safety precautions. Characteristics of materials.



Sculpture

Individual teacher to determine materials suitable for class.

Working Knowledge:

Materials that may be used.

Sculpture forms—

Representative

Abstract

Stylized

Distorted

Non-objective

Good design—recognition of it and working for it.

Concepts:

Various materials and how to work with them. Individual ways of working and seeing. Development of good work habits.

Suggested Projects:

Study sculptured representations—

Actual objects

Pictures

Museum visits

Pupils make picture file of examples

Background and Appreciation:

Study work in stone by Michelangelo, William Zorach, Henry Moore, Carl Milles, Naguchi.

Study reliefs on cathedrals of Europe.

Study work in metal by Brancusi, Giacometti, Lehmbrack.

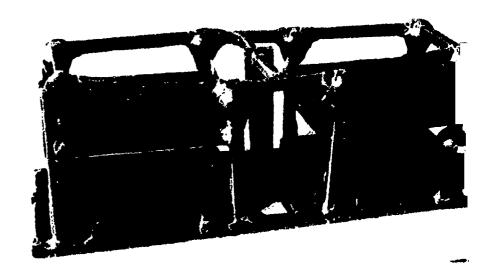
Study work in clay by Jacob Epstein, Archipenko.

Study Greek, Roman, and Egyptian styles in various materials.

Objectives:

- An understanding of line, texture, form, mass, space, and light as applied to three-dimensional work.
- An appreciation of the history of sculpture.

- The ability to transform inert stone, clay, or wood into a dynamic, lifelike creation through various processes.
- A respect for the possibilities and limitations of the material.



Media:

Plastic—	Metal—
Drill	Shape
Form	Pierce
Cast	Drill
Cut	Cut
Rasp	Planish
File	Solder
Cement	
Clay—	Glass-
Model	Break
Press mold	Cut
Incise	Heat and
Cast	melt
Cut	Cement
Slab	
Throw	
	Drill Form Cast Cut Rasp File Dye Cement Clay— Model Press mold Incise Cast Cut

Sculpture—(Modeling and Carving)

Objectives:

- To intensify powers of perception and to create in a rich visual dimension.
- To understand spatial organization.
- To relate knowledge of three-dimension design to architecture and industrial design.
- To be able to determine quality in three-dimension design and as consumers make intelligent selections.
- To encourage creativity with something that gives personal satisfaction.

Materials:

Tools	Med ia
Drills	Wire
Soldering iron	Metal
Files	Wood
Sandpaper	Clay
Hammers	Plastic
Saws	Glass
Chisels	Plaster of Paris
Mallets	Solder
Knives	Adhesives
Shears	Liquid steel
Pliers	Foils
Screws	Containers
Scissors	Armature wire
Nails	Sculp metal





Concepts:

Making the correct choice of material for using in a solution.

Importance of space relationships.

Proper use of tools.

Complete understanding of potential and limitations of material.

Construction problems (if any).

Finishing.

Suggested Projects:

Abstractions Figures Animals Fish

Project combining materials Stabiles

Semi-abstractions

Use:

REST COPY RVAILABILE Modeling and carving materials-

Papier maché Sawdust and paste Sawdust and plaster

Plaster of Paris

Cement

Plaster and Vermiculite

Sculp-metal

Ashestos, plaster, and cement

Sandstone Marble Wood

Emphasis:

Tools Media Drills Dowels Drill bits Epoxy glue Household cement Hammer Saw Contact cement Files Iron glue Knives Nails and screws

Sandpaper Cork

Chisel Masonite Mallet

Pebbles and sand Pliers Found objects Steel wool Various containers

Toothpicks Straws String

Armature wire

Solder

Suggested Projects:

A solid three-dimensional form which invites physical as well as visual inspection.

A construction with toothpicks or eardboard in which planes project into space at a various depth. Add color, texture, and perforations.

A composition with directional planes.

A transparent mass with string tensions over wire form. A geometric relief with positive and negative shapes. Interpretation of animal, human, or abstract figures.

Plaster Sculpture

Working Knowledge:

The mixing, pouring, and carving of plaster.

The construction of bases and armatures to support plaster sculpture.

The use of Paris cloth to fill voids and establish fine details in plaster sculpture.

Concepts:

On pre-planning of plaster sculpture for control of material and idea.

On rendering form with the simplicity necessary in use of the material.





On individual ways of seeing and working.
Understanding the use and care of plaster tools and riffles.

Suggested Projects:

Research and make detailed studies of ideas.

Utilize various sculpture forms—non-objective, realistic, abstract, stylized.

Notebook of ideas which might inspire project.

Write a report on each project.

Background and Appreciation:

Class discussion on techniques as seen in reference material (actual and pictured).

Contemporary audio-visual aids in various crafts fields. Demonstration by instructor.

Study of the relationships of space, form, and texture in works of art.

Field trips to craft shows and community areas of interest.

Discussion of articles in current crafts periodicals.

References:

The Techniques of Sculpture, John Mills; Reinhold

Sculpture for Beginners, Henry Lion; Foster, Inc. Sculpture Techniques in Clay, Wax, Slate, Frank Ellison; Chilton Company.

Periodicals:

Ceramics, Professional Publications, Columbus, Ohio Ceramic Horizons, Lawhead Press, Inc., Ohio Craft Horizons, Craft Horizons, Inc., New York Design, Design Publishing Company, Columbus, Ohio Handweaver and Craftsman, Handweaver and Craftsman, Inc., New York

Interiors, Whitney Publications, New York
School Arts, Davis Publishers, Inc., Worcester, Mass.
American Artist, Art and Activities, Educational Press
Association of America, Kuztown, Pa.

Art Education, Educational Press Association of America, Kuztown, Pa.

Art in America, 635 Madison Ave., New York, N. Y. Grade Teacher, Educational Press Association of America, Kuztown, Pa.

Instructor, Owens Publishing Company Art News, Newsweek, Inc., New York

Sand Casting

Objectives:

- An increasing ability to unite form and function in a pleasing design.
- A respect for the historical background of the bas relief.
- An awareness and appreciation of contemporary work of this type.
- The ability to cooperate with others.

Materials:

Sand

Plaster of Paris

Wire mesh

Wire support for hanging

Wooden frame

Exotic and common articles for making impression

Patterns

Study and Discuss:

The historical significance of the bas relief.

The use of bas relief as architectural decoration.

Visit:

Museums and other public places where examples of bas relief may be seen.



Suggested Projects:

A series of related panels to be hung in the school as a group project.

An exterior or interior bas relief for a home.

Small decorative panels with inspiration from nature, geometry, or man-made articles.



Sand Casting



Objectives:

• To learn about bas relief and work in a new way with interesting material.

- To gain understanding about the various methods of making relief sculptures.
- To become aware of this craft in relationship to the great friezes of the past.
- To provide opportunity for group experience.

Materials:

Wire Simple wooden frame

Clean sand Screen
Plaster of Paris Water

Any type of common article for impressions

Concepts:

Design adaptable for material Pressing design Group project Casting Light and shadow effects (relief)

Suggested Projects:

Panels (individual or groups)
Murals (exterior or interior)
Small relief (for individual enjoyment)

Casting

Experiences:

Casting simple and intricate forms

Liquid rubber easting methods in combination with cradle molds

Papier maché

Lost wax method

Concepts:

Methods of reproducing three-dimensional objects Various techniques for easting

Materials:

Tools Media Ruler Chipboard Masking tape T-square Common pins Paint Compass Sticks Wire Plaster of Paris **Papers** Fabrics Paste Clue Plasticino Wood Metal Class

Working Knowledge:

Knowledge of positive and negative form, chemical reaction, energy, and heat.

Release of air pressure.

Solving the problem of undercuts.

Use of dividers of shima.

Limitation of the medium.

Need for careful planning and thorough execution along with resourcefulness.

Suggested Projects:

Importance in developing resourcefulness, powers of observation and research teeniques, and in learning to plan work within certain specifications. It provides the student with the opportunity to work with a multitude of materials.



Many students are delighted with the making of models and the results and will continue in this area, accepting increasingly difficult challenges. Models have an important use in the field of architecture and in community promotion and good models are in demand.

References:

Technique of Casting, John Mills: Reinhold Contemporary Sculpture Techniques, John Baldwin, Reinhold.



Glossary of Art Terms

Absolute-(Pure) ... t form, as manner of treatment. Positive, certain, final, or . If-sufficient.

Abstract—An inter etation that expresses the essence of a figure, object, or place in lines, geometric forms or planes with little regard for its natural appearance.

Academic-Literary rather than the technical. Theoretical

rather than practical.

Accent-The emphasis of de k or light in a drawing or of color in a painting.

Acetone-A solvent for plastics.

Aesthetics-Appreciative of, or responsive to, the heauty in art or nature.

Alcohol—A solvent for shellac (methanol or shellacol).

Alla Prima—A method by which a painting is usually completed in one sitting. Painting in a direct method.

Annealing-To toughen metal by heating the metal and gradually cooling.

Appliqué—Ornamentation of fabric. An ornament of one material is sewed or fastened to another material.

Area—An enclosed, limited, flat space.

Armature—Framework used to support modeling substances such as clay, papier maché, or plaster (usually made of wood, metal, or wire mesh).

Asymmetric-A balance in art composition based on an informal relationship.

Atmosphere—A relationship between parts which give them the effect of having all been seen under the same conditions,

Balance—The harmonious arrangement or adjustment of the weights amount, or values in a design to establish equilib-

Bulsa-A strong, light wood for carving, construction, model building, or for collages. (Available in sheets, strips, or blocks.)

Bas relief—Low relief sculpture (the opposite of incised relief). But—A flat, level plaster slab used to absorb moisture from wet clay; also used on the wheel to aid in throwing ceramic objects.

Butik—A method of creating colored designs on fabric by coating with wax those areas not to be dyed. (Term also used to describe the resist techniques.)

Beeswax-A wax secured from melted bone combs-used in combination with paraffin for batik.

Bisque-Unglazed pottery after first firing.

Bit-A tool used with a brace for drilling or boring.

Brayer-Rubber roller used in inking printing blo brayers are also available).

Bright-A brush with short hard bristles.

Calligraphy—Beautiful handwriting. The art of fine writing. Excellent in live-in art.

Caricature—A picture representation that Indicronsly exaggerates or distorts characteristics or peculiar features.

Cartoon—A preliminary drawing, or an exaggerated drawing or reproduction done for a newspaper or magazine.

Casein—A heavy, water-soluble paint with a milk base.

Custing-A term used in many crafts, especially in ceramics and metal crafts. This is a shape that is the result of pouring some compound into a mold. The result will be a duplicate of the object from which the original mold was made

Ceramics -- A general term for the art of using clay hodies industrially, commercially, or for fine art work.

Champlere-A process of enameling in which the design is cut out of a metal plate, leaving thin raised lines that create compartments to hold the enamel.

Character—Individuality,

Chroma—The relative brilliance or intensity of a color.

Classical—In accordance with ancient Roman and Greek models.

Cloisonne—A method of decorating metal, which consists of constructing a design on a metal or porcelain ground in little fences of metal and filling the spaces with various colored vitreous pastes (enamels).

Collage—Composition made by assembling, pasting, and gluing materials to a surface. (Can be combined with drawing, painting, and glazing).

Colors-Primary-Red, yellow, and blue-three basic hues which cannot be produced by a mixture of pigments.

Secondary-Orange, green, purple; colors achieved by mixing primaries.

Tertiary-Colors derived by mixing secondaries; sometimes called intermediate hues.

Analagous—Colors closely related, neighbors on the color wheel; sharply contrasting hues.

Triad-Colors equidistant from each other on the color wheel.

Warm-Colors usually associated with fire, sun, and earth: brown, red, orange.

Cool-Colors usually associated with water, sky, spring, and foliage: green, blue, turquoise.

Complimentary—colors which are exactly opposing physically.

Contour-A line drawing delineating the external characteristics or boundaries of a shape or form.

Coping saw—A small hand saw used to cut circular and irregular shapes in plywood, gypsum board, masonite, and heavy irdboards.

Counter enameling-To enamel the back of an enameled piece. Crafts—An area of art which emphasizes the making of objects of beauty by hand using varied materials.

Design-To outline, sketch, or plan a work of art in a skillful manner; also a work of art possessing all the principles of designs, rhythm, balance, proportion, harmony, unity, em-

Diptych—An altar piece consisting of two hinged panels.

Distortion—Deliberate or intuitive alteration by the artist of a natural shape, form, or surface.

Dry brush-Controlled amount of water used in brush for strokes.

Dry point-An engraving made with a needle instead of a burin and without acid.

Dye-To color or stain; to change hue of a cloth or material; also the material used for staining.

Dynamic—Suggestive force or movement, not static.

Empathy-The projection of one's personality into the object of contemplation, a feeling of oneself into a work of art.

Emboss-To ornament a surface with raised work.

Emphasis-Intensity, force of expression, stress laid on a particular point in a work of art.

Enamel—(1) A type of paint or varnish that dries to a hard shiny finish and also is known for its quick drying ability. (2) A vitreous colored paste or powder that solidifies when fired; used on metals.

Encautsic-A method of painting with colored wax, which is fused with heat to fix the colors.

Engabe-Liquid clay or slip applied as color for surface decoration in ceramics.

Engraving—The process of incising or scratching into metal or other prepared surfaces with a sharp tool.

Etching—To produce a design on metal or glass by using a corrosive to make the lines. After applying ink to the surface, an impression may be taken.

Fabric-A cloth made by weaving, knitting, or felting fibers. Fettling knife—A sharp, flexible-bladed knife similar to a paring

Fine arts—The appreciation and the expression of the arts, such as dancing, drama, painting, sculpture, architecture, literature, and music.

Firing-Process of baking clay pieces in a kiln at high temperature until point of vitrification is reached.

Fixative-A commercial preparation in liquid or spray form used to protect easily smudged surfaces.

Flat—A brush with long-haired bristles.

Flat color-An even or uniform area of color.



knife.

Flux—Any substance or mixture, as silicates, limestones, and fluorite, used to promote fusion, especially the fusion of metals or minerals.

Foil—A metallic substance formed into very thin sheets by rolling and hammering.

Foreshortening—The apparent visual compression or distortion of forms in a composition to indicate depth in space. Form—Usually a sculptural or three-dimensional shape defined

by its characteristic contour.

Free form-Forms having no definite shape, amorboid forms.

Frottage—A design created by rubbing a grease or wax crayon on thin paper placed over objects with raised surface qualities such as reliefs, mosaics, leaves, bark, or seaweed.

Functional-Serving a function or useful purpose.

Genre—Compositions which emphasize themes of domestic and everyday events.

Geometric forms—Art forms based on basic shapes of circle, triangle, square, rectangle, semi-circle, etc.

Gesso-Prepared plaster mixed with a binding material and used as a ground for painting or for relief.

Glaze—A transparent or opaque surface finish applied to a ceramic or metalware.

Glazing—Putting a transparent coat of paint over a light underpainting.

Glossy—Having the quality of a lustrous, glazed, smooth, or sleek finish.

Gouuche-A painting with opaque or body colors-non-transparent.

Greenware—Any clay piece that is still damp, or unfired and still requires drying.

Grissille—The painting of the subject in gray colors, used as an underpainting.

Gonge—A tool used in the block printing crafts. A gouge usually cuts a wide surface and has a beveled point.

Ground bisque ware.

Gront—A thin mortar used to fill up or finish the spaces between tessarae.

Gum Arabio—Gum used as a binder for clay or glaze; sometimes called tragacanth. Also used in copper enameling to adhere enamel to copper before firing.

Harmony—An element of design; the consistent, orderly, or pleasing arrangement of parts in a total pattern.

Harness—A device used in weaving. Used to hold the heddles, Hatching—A system for building up tones or shadows by using a series of lines at various angles crosshatching.

Hue-Color.

Impusto—A particularly thick or heavy application of paint.

Incising—Cutting into a surface with a sharp instrument; a method of decorating on pottery or wood.

Inkle loom—A very simple loom which derives its name from the Scottish word, "inkle" which means a very narrow band or strip.

Intuglio-An incised figure or decoration depressed below the surface of a stone so that an impression from it yields an image in relief.

Joint—The place or part where two things or parts are joined so as to allow motion.

Jeweler's saw—Small, hand saw used for cutting small shapes from metal sheeting.

Jute—A plant fiber used in the making of burlap.

Kinaesthetic-Producing motion in a design or painting.

Lacing—Uniting materials by texture or by leather strips or cord passed through cyclet holes.

Leno—A term used in the weaving crafts. This is a technique of twisted pairs of warm threads being woven between the filling.

Limoges—Process of enameling metal in which the entire surface is covered in a contiguous or continuous manner.

Line—A mark made by a moving point.

Line cutter—A sharp bladed steel tool used for cutting linear designs in silk screen film.

Linoleton—A material used for block printing (battleship). Lithography—A process of printing from a stone or prepared metal plate involving the use of a grease crayon and ink in making impressions of this composition.

Loom—A machine or apparatus for weaving yarn or thread.

Macramó—Designs made with coarsely knotted thread, yarn,
etc.

Marquette—A rough miniature model used by sculptors as a guide for a larger, finished work.

Masterpiece—A term used to denote excellence at a high level, the best of an artist or craftsman,

Muss—The effect and degree of bulk, density, and weight of matter in space.

Mat—The surrounding area between the frame and the picture.

Matte—A dull surface.

Medium (mediu)—The vehicle or liquid with which a pigment is mixed. In a more general sense, the substance, material, or agency through which the artist expresses his idea, such as stone, metal, pigment, enamel, etc.

Mobile—An art construction or piece of sculpture, usually abstract which has the qualities of fluidity, movement, and

versatility in response to external stimuli,

Modeling—In drawing or painting, gradations of light and shade reflected from the surfaces of matter in space, or the illusion of such gradations on a two-dimensional surface. In sculpture, built-up form effected by "adding to" rather than "subtracting from"; distinct from carving which subtracts to evolve sculptural form.

Mold—Hollow shape into which plastic material is pressed or poured; also the act of shaping material this way.

Monochromatic—One color; in color scheme, one color with all its tints and shades.

Monogram—A designed character consisting of two or more letters combined or interlaced; commonly, initials to be printed on textiles, paper, etc.

Monoprint—A type of print or engraving that can reproduce only one of its kind.

Mosaic—A design or composition formed by the planned juxtaposition of clay or glass tessera comented in grout or mortar.

Motif—Distinctive design or figure that is developed and reoccurs in variation throughout an art work as the dominant idea or feature.

Mural—A wall painting which usually tells a story through a sequence or in episodic arrangement.

Neutral-Without definite color identification (black, white, or gray).

Nib-The point of a pen.

Non-objective—Pertaining to a painting or sculpture that has no subject matter; pure abstraction,

Oblique—Neither perpendicular nor parallel; designates sloping or slanting.

Opaque—Impenetrable to light; non-translucent.

Origani-Ancient art of Japanese paper folding.

Overglaze-Decoration applied after glaze fire.

Palette—A surface used for the purpose of mixing paints.

Papier maché—A substance made of paper pulp conditioned with sizing or paste.

Pattern—A decorative design using a repeated motif.

Perspective—A scheme or formula for representing, on one plane, distance and distant object.

Pigment—A coloring matter or dry substance, usually pulverized, which becomes a paint or ink when mixed with a liquid in which it is relatively insoluable.

Planc—A flat, continuous surface that does not change direction.
Planishing—Level, smooth pounding or rolling of metal.

Planographic—Printed from a flat surface, as a metal plate.

Plaster of Paris—A white powder (calcium sulphate) which when mixed with water forms a quick-setting easting or construction material.

Plastics -Plastics can be organic or synthetic. These materials can be molded.

Plusticine—Chaylike material of an oily composition that dries more slowly than clay.

Plique-a-jour--Enameling process not backed by any metal. Polychromatic—Changing of many colors.

Polytych -- A picture, usually an alter piece in the form of more than three leaves hinged together.

Portrait—A pictorial representation of a person; usually depicts a face.



Positive-negative-Positive areas in a composition are definite forms and shapes; negative areas are the unoccupied or empty spaces.

Potter's Wheel-Revolving wheel, driven by hand, foot, or electric power, on which clay can be "thrown" to make variously shaped objects of clay.

Pottery-Objects of any kind that are made of earthenware and hardened by firing.

Print-Anything that leaves a printed impression on one surface from another surface.

Proportion—The mathematical relation or ratio or the parts of an object to each other and to the whole.

Puppet-An artificial figure with jointed limbs, moved by hand or stick or by strings. All marionettes are puppets, but all puppets are not necessarily marionettes,

Pyrometer—An electrical device used to measure the heat of a

Raffia—A palm fiber available in a wide range of colors.

Realistic-A mode of art characterized by representation of things as they really are; sometimes synonymous with photographic.

Reed—In a loom, the series of parallel strips that force the weft up to the web and separates the threads of the warp. Relief-Projections of figures and forms from a flat surface,

Relief printing-Printing from a raised surface.

Repetition—The process of organizing a work of art by obvious repetition of the same lines, shapes, and colors and other forms.

Repousse-Process of decorating metal by beating it into relief from the back, leaving the impression on the face.

Rhythm-An element of design that established a proper relationship and interdependence of parts to the artistic whole through regular recurrence of elements of motion.

Rouge-A red powder, ferric oxide, used in polishing metals, Roving-Heavy cotton yarn.

Sandcasting—Method of producing a casting by ponring Plaster of Paris into sand molds.

Saturation—The greatest possible intensity of a color.

Scale-The mathematical relationship or ratio of the parts or totality of an object to its function or to the size of the original form.

Scheme-A color arrangement, as "color scheme"; the colors used in a particular work.

Scoring-The prearranged folding-lines of paper patterns in preparation for paper sculpture.

Sculpture-in-the-round—Free-standing forms, carved or modcled in three dimensions.

Scumble-A painting term referring to the softening of a color by the application of another opaque color over it.

Sgraffito—Decoration produced by scratching through a surface layer of plaster, glazing, etc., to reveal differently colored ground; used in jewelry.

Shade-Effect produced by adding black to the normal color. Shadoc—The dark area on a form which intercepts light. Shuttle—Thread carrier on a loom.

Silhonette—A two-dimensional outline of an object in space. Sketch-A brief study of a subject, a drawing complete in itself. Slip—Liquid clay.

Solder—Any of many alloys. Used to fuse two pieces together. Solvent-A liquid which dissolves or reduces the viscosity of other liquids. (Turpentine is a solvent for oil paint.)

Space--Three-dimensional. In art, a structure or form possessing thickness, or depth as well as length and breadth.

Squeegee-A hard piece of rubber braced in wooden handle and used to force ink or paint through a silk screen for printing.

Stabile-A sculptural construction, usually abstract in part, that remains in a fixed position.

Stained Glass-Glass colored by various processes, often used in church windows.

Steneil-A thin sheet of cardboard, paper, metal, or film cut through in such a way as to reproduce a design when color is rubbed over it.

Still life - A picture or picture set-up representing manimate objects, as flowers, fruit, etc.

Stipple—To paint, engrave, or draw by means of dots or small

Stitchery-The designing in a fabric or material with thread; a form of sewing or embroidery.

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Structure-Organization, composition, as "art structure"; formal organization.

Style—The quality that gives distinctive excellence to art. Also a current group of forms united by reciprocal fitness and expressive of a civilization, of a people, or of an individual. Stylize—Artist individual distortion.

Subordination—The placement of certain objects, shapes, and colors in a lower order or rank of importance in a design.

Symbol—A sign or object that stands for or suggests something else by reason of relationship, association, convention, or accidental but not intentional resemblance.

Symmetry-Correspondence in size, shape, and relative position, of the parts that are on opposite sides of a dividing line or median plane.

Tactile—Refers to sense of touch.

Technique-Method of procedure involved in transforming matter or artistic media into a work of art.

Tempera—Term used interchangeably with the commercial product poster paint.

Terra cotta-Variable color of hard-baked clay, red to reddish yellow, and of high saturation. Loosely means unglazed clay.

Tessera-Small pieces of glass or stone used in making mosaics. Textile—Any material that is woven.

Texture—The sensuous or tangible quality of a surface or the simulation of such qualities in drawing, painting, or sculpture.

Three-dimensional—Pertaining to any design or sculptural work that has length, width, and depth.

Tint—The lighter color value.

Tone-The value and chroma quality of hie as used in painting. Tooling—The designing or ornamentation of leather or metallic materials by means of compressing or pushing out with a suitable tool.

Tooth-The textural surface quality of the white canvas or paper, varying from rough to smooth.

Transition-The process of softening opposition; e.g., the use of a diagram movement between a horizontal and vertical image.

Translucent—Semi-opaque; a design or painting that has rays of light transmitted through it in such a way as to show clearly bodies behind or beyond it in full outline.

Tripoli-Compound used for polishing scratches in metal. A dustlike silica.

Triptych-A painting in the form of three leaves or panels, hinged together.

Tsantung-Used for applying hot wax to a fabric in batik process.

Tusche-A lithographic and silk screen liquid used for stippling, penwork, and filling in solids on silk screen stencils.

Two-dimensional—Pertaining to design that has only the dimensions of length and width; commonly known as "flat pattern.

Underglaze—Pottery colors used for decoration; these colors are

Unity-The oneness or wholeness of a work of art.

Value—An attribute of color, its lightness or darkness; for example, the values of red would range from pink to maroon.

Vitrification-The process of becoming glass-like, as in a glaze, or nonporous, as in ceramics.

Warp-The lengthwise (vertical) threads in which a loom is strung.

Wash-The application of color in a thin fluid manner. Diluted pigment.

Wedging-A method of preparing clay by kneading it to expel air pockets and make it constantly plastic.

Woodcut-A design engraved upon a block of wood in such a way that the background is cut away to a slight depth and only the lines remaining form the design; also a printing impression made from such a block.

Woof-Same as weft. The threads that run horizontally in the process of weaving.





Recommended Teaching Aids

For information concerning recommended books, films, visual aids, or professional lectures and demonstrators, refer to the following publications:

Recommended Art Books for Kansas Schools, Supplements I, II, III Art Listings of Producers and Distributors of Audio Visual Materials A Listing of Lecturers and Demonstrators in the Visual Arts

All of the above publications are available through the office of:

Gary L. Kroeger Art Education Specialist State Department of Education 120 E. 10th Street Topeka, Kansas 66612



